Gal & Ea

SYNOPSIS

OF THE

NATURAL HISTORY

OF

GREAT-BRITAIN AND *IRELAND*.

CONTAINING

A SYSTEMATIC ARRANGEMENT

AND

CONCISE DESCRIPTION

OF ALL THE

ANIMALS, VEGETABLES, AND FOSSILS,

WHICH HAVE HITHERTO BEEN DISCOVERED

IN THESE KINGDOMS.

By JOHN BERKENHOUT, M. D.

BEING A

THIRD EDITION OF *THE OUTLINES*, &c.

CORRECTED AND CONSIDERABLY ENLARGED.

VOL. II.

COMPREHENDING THE VEGETABLE KINGDOM.

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ADVERTISEMENT.

SINCE the laſt Edition of this Work made its appearance, ſo much attention has been paid to the ſcience of Botany, that the Britiſh Flora has been enriched not only by a few new Genera, but by many hundred new ſpecies of Plants; theſe are principally of the claſs Cryptogamia, where the objects being frequently very minute, and the parts of fructification obſcure, they had either eſcaped the notice, or had been confounded together by former Botaniſts. To the laborious inveſtigation and accurate deſcriptions of Bolton, Dixon, Curtis, Withering and others among our own countrymen, as well as Bulliard, Batch, Schœffer and other foreigners, we are very much indebted; they have removed many of the difficulties which before exiſted, and have by their excellent plates leſſened the confuſion which prevailed, a liberal uſe has been made of their labours, and this Edition contains a deſcription of many hundred new plants; a reference is likewiſe made to the beſt plates extant, by which the ſtudy will be much facilitate

DERIVATIONS.

ABDOMINALES. From *Abdomen*, the Belly. The 4th Order of Claſs IV. Fiſhes whoſe belly-fins are behind the pectoral.

ACCIPITRES. From *Accipiter*, a Hawk. Birds of the Hawk kind. The firſt Order in Claſs II.

AMPHIBIA. From αμφι *utrimque*, and βιος *vita*. Living in both elements. Claſs III.

APODES. From *à* priv. and πους, *pes*, a foot. The 1ſt Order of Claſs IV. Containing thoſe Fiſhes which have no belly-fins, which Linnæus conſiders as feet.

APTERA. From *à* priv. and πτερον, *ala*, a wing. The 7th Order of Claſs V. Without Wings.

BELLUÆ. From *Bellua*, a beaſt. The 6th Order of Claſs I.

CETE. From Κητος, *Cetus*, a Whale. The 7th Order in Claſs I.

DIPTERA. From διπλοος, *duplex*, double, and πτερον, *ala*, a wing. The 6th Order of Claſs V. Containing thoſe inſects which have two wings.

FERÆ. From *Fera* a wild-beaſt. The 3d Order of Claſs I.

GALLINÆ. From *Gallina*, a Hen. The 5th Order of Claſs II.

GLIRES. From *Glis*, a Dormouſe. The 4th Order of Claſs I.

GRALLÆ. *Grallæ*, ſtilts. Having very long Legs. The 4th Order of Claſs II.

HEMIPTERA. From ἡμισυς, *dimidius*, half, and πτερον, *ala*, a wing. The 2d Order of Claſs V.

HYMENOPTERA. From ὑμην, *membrana*, a membrane, πτερον, *ala*, a wing. The 5th Order of Claſs V.

JUGULARES. From *Jugulum*, the Neck. The 2d Order of Claſs IV. containing thoſe Fiſhes whoſe lower fins are in the neck, before the pectoral.

LEPIDOPTERA. From λεπὶς, a ſcale or thin plate, and πτερον, *ala*, a wing. The 3d Order of Claſs V.

LITHOPHYTA. From λίθος, *lapis*, a ſtone, and φύσις, nature, ſubſtance. The 4th Order of Claſs VI.

MAMMALIA, or Dug. The 1ſt Claſs of the Animal Kingdom, comprehending thoſe which ſuckle their young.

MOLLUSCA. *Molluſca*, a ſpecies of nut with a ſoft ſhell. The 2d Order of Claſs VI.

NEUROPTERA. From νεῦρον, *nervus*, a nerve, and πτερον, *ala*, a wing. The 4th Order of Claſs V.

PASSERES. From *Paſſer*, a Sparrow. Order the 6th of Claſs II.

PECORA. From *Pecus*, a flock of ſheep, &c. The 5th Order of Claſs I.

PICÆ. From *Pica*, a Magpie. The 2d Order in Claſs. II.

PRIMATES. From *Primas*, firſt in rank, moſt conſiderable. The 1ſt Order in Claſs I.

TESTACEA. From *Teſta* a ſhell. The 3d Order of Claſs VI.

THORACICI.

THORACICI. From *Thorax*, the Breaſt, or that part of the Body which contains the heart and lungs. The 3d Order of Claſs IV. Containing thoſe Fiſhes whoſe ventral or belly fins are placed immediately under the pectoral fins.

VERMES. From *Vermis*, a Worm. Claſs VI.

ZOOPHYTA. From Ζῶον, an animal, and φυσις, nature, ſtructure, &c. The 5th Order of Claſs V.

THE

LINNÆAN SYSTEM.

The VEGETABLE KINGDOM is divided into Twenty-four Claſſes; viz.

Claſs I. MONANDRIA. Flower hermaphrodite, ſtamen one.

II. DIANDRIA. Flower hermaphrodite, ſtamina two.

III. TRIANDRIA. Flower hermaphrodite, ſtamina three.

IV. TETRANDRIA. Flower hermaphrodite, ſtamina four.

V. PENTANDRIA. Flower hermaphrodite, ſtamina five.

VI. HEXANDRIA. Flower hermaphrodite, ſtamina ſix.

VII. HEPTANDRIA. Flower hermaphrodite, ſtamina ſeven.

VIII. OCTANDRIA. Flower hermaphrodite, ſtamina eight.

IX. ENNEANDRIA. Flower hermaphrodite, ſtamina nine.

X. DECANDRIA. Flower hermaphrodite, ſtamina ten.

XI. DODECANDRIA. Flower hermaphrodite, ſtamina from eleven to nineteen incluſive.

XII. ICOSANDRIA. Stamina generally twenty or more, not fixed to the receptacle, but to the inſide of the calyx.

XIII. POLYANDRIA. Stamina from twenty to a thouſand fixed to the receptacle.

XIV. DIDYNAMIA. Stamina four, two long and two ſhort.

XV. TETRADYNAMIA. Stamina ſix, four long and two (oppoſite) ſhort.

XVI. MONADELPHIA. Stamina united at the baſe in one body.

XVII. DIADELPHIA. Stamina united in two diſtinct ſetts.

XVIII. POLYADELPHIA. Stamina united in three or more diſtinct ſetts.

XIX. SYNGENESIA. Antheræ united in a cylinder.

XX. GYNANDRIA. Stamina inſerted in the piſtillum.

XXI. MONOECIA. Male and female flowers diſtinct, on the ſame plant.

XXII. DIOECIA. Male and female flowers on different plants.

XXIII. POLYGAMIA. Hermaphrodite and alſo male or female flowers, or both, on the ſame or different plants of the ſame ſpecies.

XXIV. CRYPTOGAMIA. Flowers concealed.

Claſs I. MONANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.

II. DIANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.

III. TRIANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.

IV. TETRANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Tetragynia.* Piſtilla four.

V. PENTANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.
4. *Tetragynia.* Piſtilla four.
5. *Pentagynia.* Piſtilla five.
6. *Polygynia.* Piſtilla many.

VI. HEXANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.
4. *Tetragynia.* Piſtilla four.
5. *Polygynia.* Piſtilla many.

VII. HEPTANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Tetragynia.* Piſtilla four.
4. *Heptagynia.* Piſtilla ſeven.

VIII. OCTANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.
4. *Tetragynia.* Piſtilla four.

IX. ENNEANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Trigynia.* Piſtilla three.
3. *Hexagynia.* Piſtilla ſix.

X. DECANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.
4. *Pentagynia.* Piſtilla five.
5. *Decagynia.* Piſtilla ten.

XI. DODECANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.
4. *Pentagynia.* Piſtilla five.
5. *Octagynia.* Piſtilla eight.
6. *Dodecagynia.* Piſtilla twelve.

XII. ICOSANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.
4. *Pentagynia.* Piſtilla five.
5. *Polygynia.* Piſtilla many.

XIII. PO-

XIII. POLYANDRIA.

Order 1. *Monogynia.* Piſtillum one.
2. *Digynia.* Piſtilla two.
3. *Trigynia.* Piſtilla three.
4. *Tetragynia.* Piſtilla four.
5. *Pentagynia.* Piſtilla five.
6. *Hexagynia.* Piſtilla ſix.
7. *Polygynia.* Piſtilla many.

XIV. DIDYNAMIA.

Order 1. *Gymnoſpermia.* Seeds naked.
2. *Angioſpermia.* Seeds in a pericarpium.

XV. TETRADYNAMIA.

Order 1. *Siliculoſa.* Seed in a ſmall, round pod.
2. *Siliquoſa.* Seed in a long, larger pod.

XVI. MONADELPHIA.

Order 1. *Pentandria.* Stamina five.
2. *Enneandria.* Stamina nine.
3. *Decandria.* Stamina ten.
4. *Dodecandria.* Stamina twelve.
5. *Polyandria.* Stamina many.

XVII. DIADELPHIA.

Order 1. *Pentandria.* Stamina five.
2. *Hexandria.* Stamina ſix.
3. *Octandria.* Stamina eight.
4. *Decandria.* Stamina ten.

XVIII. POLYADELPHIA.

Order 1. *Pentandria.* Stamina five in each ſett.
2. *Icoſandria.* Stamina twenty in each ſett.
3. *Polyandria.* Stamina many in each ſett.

XIX. SYNGENESIA.

Order 1. *Polygamia æqualis.* Florets all hermaphrodite.
2. *Polygamia ſuperflua.* Florets of the diſk hermaphrodite, of the radius female.
3. *Polygamia fruſtranea.* Florets of the diſk hermaphrodite, of the radius neuter.
4. *Polygamia neceſſaria.* Florets of the radius female, of the diſk male.
5. *Polygamia ſegregata.* Within the common calyx many partial calyces, ſeparating the florets.
6. *Monogamia.* The flowers not compoſite.

XX. GYNANDRIA.

Order 1. *Diandria.* Stamina two, germen twiſted.
2. *Triandria.* Stamina three.
3. *Tetrandria.* Stamina four.
4. *Pentandria.* Stamina five.
5. *Hexandria.* Stamina ſix.
6. *Decandria.* Stamina ten.
7. *Dodecandria.* Stamina twelve.
8. *Polyandria.* Stamina many.

XXI. MONOECIA.

Order 1. *Monandria.* Male flowers with one ſtamen.
2. *Diandria.* Male flowers with two ſtamina.

Order

Order 3. *Triandria.* Male flowers with three ſtamina.
4. *Tetrandria.* Male flowers with four ſtamina.
5. *Pentandria.* Male flowers with five ſtamina.
6. *Hexandria.* Male flowers with ſix ſtamina.
7. *Heptandria.* Male flowers with ſeven ſtamina.
8. *Polyandria.* Male flowers with many ſtamina.
9. *Monadelphia.* Male flowers with one ſett of united ſtamina.
10. *Syngeneſia.* Male flowers with united antheræ.
11. *Gynandria.* Male flowers with ſtamina growing out of the piſtillum.

XXII. DIOECIA.

Order 1. *Monandria.* Male flowers with one ſtamen.
2. *Diandria.* Male flowers with two ſtamina.
3. *Triandria.* Male flowers with three ſtamina.
4. *Tetrandria.* Male flowers with four ſtamina.
5. *Pentandria.* Male flowers with five ſtamina.
6. *Hexandria.* Male flowers with ſix ſtamina.
7. *Enneandria.* Male flowers with nine ſtamina.

Order 8. *Decandria.* Male flowers with ten ſtamina.
9. *Dodecandria.* Male flowers with twelve ſtamina.
10. *Polyandria.* Male flowers with many ſtamina.
11. *Monadelphia.* Male flowers with one ſett of united ſtamina.
12. *Syngeneſia.* Male flowers with united antheræ.
13. *Gynandria.* Male flowers with ſtamina growing out of the piſtillum.

XXIII. POLYGAMIA.

Order 1. *Monoecia.* Polygamy on the ſame plant.
2. *Dioecia.* Polygamy on different plants.
3. *Trioecia.* Polygamy on three different plants.

XXIV. CRYPTOGAMIA.

Order 1. *Filices.* Fruit on the back or ſide of the leaf.
2. *Muſci.* Antheræ ſeſſile.
3. *Algæ.* Root, ſtem, and leaf all in one.
4. *Fungi.* Muſhrooms, &c.

THE

THE

VEGETABLE KINGDOM.

CLASS I.

MONANDRIA.

Stamen 1.

Ord. I. MONOGYNIA.

Piſtillum 1.

SALICORNIA. Corolla 0. Calyx inflated, ſquare, intire. Seed 1. Leaves 0.

1. Herbacea. *Marſh Samphire, Jointed Glaſſwort,* or *Saltwork.* Herbaceous, ſpreading, branched, jointed; extremities compreſſed and bifid. Flowers 3 on each ſide of each joint. Height about 5 inches. On the ſea-ſhore. P. Aug. Sept. There are four or five varieties of this ſpecies.

HIPPURIS. Calyx 0. Petals 0. Stigma ſimple. Seed 1.

1. Vulgaris. *Leſs Marſh Horſe-tail,* or *Mares-tail.* Stem ſtraight, jointed, ending in a ſpike.

ſpike. Leaves narrow, growing round the joints, 4, 5, or 6 below, 7—18 above. In ſprings and bogs. May. P. *Ger.* 953. *Park.* 1200. 4.

VALERIANA. See Triandria Monogynia.

1. Rubra. *Red Valerian.* Leaves launce-ſhap'd, entire. Flower red, with a ſpur. On old walls. *Ger.* 550. 1. *Park.* 123, 11. S. Brit.

II. DIGYNIA.

Piſtilla 2.

CALLITRICHE. Calyx 0. Petals 2. Capſule bilocular. Seeds 4.

1. Verna. *Vernal Starwort,* or *Star-headed Water Chickweed.* Upper leaves oval, crowded, in form of a ſtar; the reſt in pairs. Flowers ſmall, white, androginous. Stems weak, numerous. A. In ponds and ditches. April to July. There are two or three varieties of this ſpecies. *Ger.* 830. 3.

2. Autumnalis. *Autumnal Starwort.* Leaves in pairs, linear, bifid at the ends. Stems numerous, weak. Flowers hermaphrodite, ſmall, yellowiſh. In ponds and ditches. Flowers in autumn. Sometimes dioecious.

CLASS

CLASS II.

DIANDRIA.

Stamina 2.

I. MONOGYNIA.

Piſtillum 1.

LIGUSTRUM. Calyx of one leaf, tubular, ſmall, with 4 teeth. Corolla below the germen, monopetalous, regular, funnel-ſhaped, quadrifid. Fruit a berry, with four ſeeds.

1. Vulgare. *Privet*, or *Prim.* A tall ſlender ſhrub. Flowers white, in cluſters terminal. Berries black. Leaves in pairs, long, narrow, dark green. In woods and hedges. June, July. *Ger. Herb.* 1394.

CIRCÆA. Flower above the germen. Corolla of 2 petals, equal, expanded. Calyx of 2 leaves, oval, deciduous. Seed 1, bilocular, oblong.

1. Lutetiana. *Enchanter's Night-ſhade.* Stem erect, about a foot long, with a ſpike of white flowers on the top. Leaves, in pairs, on long footſtalks, deep green, oval, but ending in a point. In hedge-bottoms. &c. June, July. P. *Ger.* 351.

2. Alpina.

2. Alpina. *Mountain Enchanter's Night-ſhade.* Stem weak, partly procumbent, about 4 inches long. Leaves ſerrated. Flowers reddiſh. Auguſt. P. I take this to be only a variety of the laſt.

VERONICA. Calyx irregular, quadripartite, with ſharp points and permanent. Corolla monopetalous, irregular, quadrifid, rotate, the ſegments oval and ſpreading. Capſule bilocular. Seeds many.

1. Spicata. *Upright Spiked Male Speedwell.* Stem ſimple, about 2 foot high, terminated by a ſpike of ſmall blue flowers. Leaves oppoſite, minutely notched, ſmall, obtuſe. In meadows and paſtures. June. P. *Ger.* 627. 4. S. Brit. *Engliſh Botany, tab.* 2.

2. Hybrida. *Welſh*, or *Bugle-leaved, Speedwell.* Stem erect, near a foot high, terminated by a ſpike of blue flowers. Leaves oppoſite, rough, obtuſely ſerrated, broad. July. P. On Craig Wreidhin in Wales. S. Brit. A variety of the former.

3. Officinalis. *Male Speedwell.* Stem procumbent, with lateral ſpikes of blue flowers. Leaves oppoſite, hairy, oval, pointed, ſerrated; thoſe near the top are narrow. May. P. Among rubbiſh, and in barren ground. *Ger.* 626. 2. *Park.* 550. 1.

4. Serpyllifolia. *Little ſmooth Speedwell*, or *Paul's Betony.* Stems numerous, partly procumbent, terminated by looſe ſpikes or bunches of pale blue flowers. Leaves oppoſite,

oppoſite, oval, ſmooth, ſmall, notched, pale. In meadows and paſtures frequent. May. P. *Ger.* 503. 3. *Curt.* pl. 3.

5. Beccabunga. *Common Brooklime.* Stem creeping. Flowers blue, in looſe lateral ſpikes; ſeſſile, oval, oppoſite, thick, notched. In ſhallow water. June. P. *Ger. Herb.* 620. 1. *Park.* 1236. 1.

6. Anagallis. *Long-leaved Water Speedwell, or Pimpernel.* Stem erect, thick, branched, about a foot and a half high. Flowers pale purple, in lateral bunches, numerous. Leaves ſeſſile, long, narrow, ſerrated. July. P. In ſhallow water. *Ger.* 620. 2.

7. Scutellata. *Narrow leaved Water Speedwell,* or *Pimpernel.* Stem thick, but little branched, about a foot high. Flowers few, on long ſlender foot-ſtalks, purpliſh or white. Leaves ſeſſile, long, narrow, not ſerrated. June. P. On ſwampy ground.

8. Chamædrys. *Wild Germander.* Stem weak, but erect, about eight inches high. Flower large, blue, in lateral bunches. Leaves ſeſſile, wrinkled, oppoſite, oval, pale green, dentated. In paſtures. May. P. *Curt.* pl. 2. *Ger.* 657. 3.

9. Montana. *Stalked Speedwell,* or *Mountain Madwort.* Stalks weak, numerous, inclining, near a foot high, with lateral pale blue flowers on foot-ſtalks, five or ſix on each bunch. Calyx hairy. Leaves oppoſite, wrinkled, on foot-ſtalks, oval, notched. In hedges and moiſt woods. May. P.

10. Agreſtis. *Germander-leaved Speedwell.* Stems many, weak, and five or ſix inches high. Flowers ſolitary, blue, axillary. Leaves oppoſite, on foot-ſtalks, heart-ſhaped, irregularly indented. In paſtures. May. A. *Ger. Herb.* 616. 1. *Park.* 764. 4. *Curt. pl.* 1.

11. Arvenſis. *Chickweed Speedwell.* Root of many ſmall fibres. Stem weak, branched, about four inches high. Flowers pale blue, ſolitary, axillary, ſeſſile. Leaves oppoſite, ſeſſile, heart-ſhaped, irregularly cut on the edges. On old walls, &c. May. A. *Ger.* 613. *Park.* 762. 7.

12. Hederifolia. *Ivy-leaved Speedwell,* or *Small Henbit.* Stems weak, numerous, ſix or eight inches high. Flowers ſingle, blue, ſmall, axillary. Leaves plain, 5 lobed, oppoſite. In corn-fields. April, May. A. *Ger.* 616. 3. *Park.* 762. 3.

13. Triphyllos. *Trifid Speedwell.* Stems numerous, partly erect, about ſix inches high. Flowers ſingle, blue, axillary. Leaves alternate, deeply divided, the upper into three, the lower into five parts. In ſandy fields. April and May. Annual. *Ger.* 612. 5. *Park.* 1260. 6. S. Brit. *Eng. Bot. tab.* 26.

14. Fruticuloſa. *Shrubby Speedwell.* Stem ſimple, erect. Leaves ſpear-ſhaped. Flower white with red ſtreaks. Foot-ſtalks longer than the floral leaves. On Mountains. May, June. P. *Ger.* 628. 5. *Park.* 551. 1.

15. Verna.

15. Verna. *Vernal Speedwell.* Flowers blue, ſingle. Calyx larger than the corolla. Flower-ſtalks very ſhort. Leaves fingered. April, May. A. On old walls and dry ſandy places. *Eng. Bot. tab.* 25.

PINGUICULA. Corolla and Calyx gaping; the upper lip trifid, the under bifid. Nectarium a ſpur produced from the petal. Germen globous. Style very ſhort. Stigma bilabiate. Capſule unilocular. Seeds many.

1. Villoſa. *Cornwal,* or *Leſs Butterwort.* Stems about three inches high, downy, ſingle. Spur thickeſt at the end. Flowers pale red. Leaves lie upon the ground in a circle. May P. In Cornwal on bogs. *Eng. Bot. tab.* 145.

2. Vulgaris. *Common Butterwort,* or *Yorkſhire Sanicle.* Stems like the laſt, but much taller. Nectarium, or ſpur, cylindrical, as long as the petal. Flowers reſemble violets. Leaves thick, oily, white on the under ſide. May. P. Moſt frequent in the North. *Park.* 532. 2. *Eng. Bot. tab.* 70.

UTRICULARIA. Calyx of two ſmall, oval, concave, deciduous leaves. Corolla of one petal, gaping; lips entire, with a heart-ſhaped palate between. A ſpur produced from the petal. Stamina very ſhort, curved. Capſule unilocular.

1. Vulgaris. *Common hooded,* or *Water-Milfoil.* Stems naked, with lateral yellow flowers on ſlender foot-ſtalks. Leaves, like fern,

are under water. Nectarium conic. June, July. P. In ſtagnant water. *Ger.* 828. 5. *Park.* 1258. 9.

2. Minor. *Leſs Hooded Milfoil.* Nectarium ridged, and the whole plant much leſs than the laſt, near which it is often found. June, July. P.

LYCOPUS. Calyx of one leaf, tubulated, ſemiquinquifid; ſegments acute. Corolla below the germen, monopetalous, unequal, tubular, quadrifid, ſpreading; the upper ſegment notched. Stamina, piſtillum, and corolla nearly of the ſame height. Seeds 4, naked.

1. Europæus. *Water Horehound.* Stem erect, ſquare, hairy, hollow, about two feet high. Flowers ſmall, white, ſurrounding the ſtem at the joints. Leaves large, ſeſſile, oblong, ſmooth, oppoſite, ſinuated and ſerrated. On the banks of rivers and lakes in ſandy ſoil. July. P. *Ger.* 700. 1. *Park.* 1230. 1.

SALVIA. Calyx tubular, ſtriated, of one leaf, 2 lips, dentated. Corolla a ſingle petal, below the germen, tubular, gaping, unequal; the upper lip concave, compreſſed, notched; the under broad, trifid. Stamina very ſhort and forked. Style long; ſtigma bifid. Seeds 4, naked.

1 Pratenſis. *Meadow Clary.* Stem upright, firm, angular, near a yard high. Flowers large, purple, in diſtinct whirls, terminating

nate the ſtem and branches. Leave oppoſite; below, large and notched; above, embrace the ſtem. July. P. Rare. *Ger.* 627. 3. *Herb.* 769. 3. 771. 4. S. Brit. *Eng. Bot. tab.* 153.

2. Verbenaca. *Common Wild Clary.* Stem firm, ſquare, hairy, about two feet high. Flowers ſmall, blue, in whirled ſpikes like the laſt. Leaves oppoſite, irregularly cut and ſerrated. May. June. P *Eng. Bot. tab.* 151.

II. DIGNYIA.

Piſtilla 2.

ANTHOXANTHUM. Calyx a glume, bivalve, with a ſingle flower. Corolla a glume, of two valves, pointed. Seed 1. Inflorescence a ſpike, terminal.

1. Odoratum. *Spring Graſs.* Culm ſlender, jointed, eight inches long. Spike looſe, yellowiſh. Florets longer than the beard. In meadows, &c. May. P. *Curt. pl.* 4.

CLASS III.

TRIANDRIA.

Stamina 3.

MONOGYNIA.

Piſtillum 1.

VALERIANA. Calyx o, or very ſmall. Corolla a ſingle petal above the germen, quinquifid, the baſe gibbous on one ſide. Seed naked, ſingle.

1. Officinalis. *Great Wild Valerian.* Stem erect, ſimple, firm, ſtriated, three to five feet high. Flowers terminal, in large tufts, reddiſh white. Leaves oppoſite, all pinnated. June. P. *Ger.* 1075. 2.

2. Locuſta. *Corn Sallad,* or *Lamb's Lettuce.* Stem forked, ſlender, eight or ten inches high. Flowers ſmall, bluiſh white. Leaves oppoſite, oblong, obtuſe. In corn-fields, &c. April, May. A.

3. Rubra. See *Monandria Monogynia.*

4. Dioica. See *Dioecia Triandria.*

CROCUS. Calyx a *ſpatha*, or ſheath of one valve. Corolla of one petal with ſix equal ſegments. Stigmata convoluted. Germen below the flower. Seeds many, round.

1. Sativus.

1. Sativus. *Saffron.* Flowers purple, the tube of the corolla remarkably long. Leaves long and narrow, with a white rib along the middle. Auguſt. A. In meadows and paſtures in Cambridgeſhire and Eſſex. *Ger.* 123. 1. *Park.* 167. S. Brit.

IRIS. Calyx a ſheath of two valves. Corolla ſexpartite, the ſegments alternately erect and reflexed. Stigmata like petals. Germen below. Capſule oblong, angular, trivalve. Seeds many, large.

1. Pſeudacorus. *Yellow Water-flag.* Stem erect, ſimple, about a yard high. Flowers large, yellow. Leaves like ſwords. July. P. On the banks of rivers, lakes, ditches. *Curt.* iii. 33.

2. Fœtidiſſima. *Stinking Flag flower,* or *Gladdon:* Stem angulated on one ſide. Flowers purpliſh aſh-colour, with the interior ſegments of the petal ſpreading. Leaves ſmaller than the laſt, 12—18 inches long, ſmell diſagreeably when bruiſed. In woods and hedges, &c. June, July. P. *Ger.* 60.

3. Xiphium. *Bulbous flower de luce.* Corolla ſmooth. Flowers in pairs. Leaves awl ſhaped, channelled, ſhorter than the ſtem. P. *Ger.* 101. 1. Said by Dr. Naſh, to be found in Worceſterſhire.

4. Germanica. *German Flower de luce.* Corolla bearded. Stem longer than the leaves. Multiflorous. Lower flowers pedunculate. June. P. Northumb. *Robſon.* Are the two preceding indigenous plants?

SCHOENUS. Flower aggregate, glumoſe. Common calyx a bivalve glume or huſk. Partial calyx of ſix parts. Corolla 0. Seed 1.

1. Mariſcus. *Long-rooted Baſtard Cyperus.* Culm, or ſtraw, round, five or ſix feet high. Leaves three-ſided, prickly edges. In fens and bogs. July, Auguſt. P. S. Brit. *Ger.* 29. 3.

2. Nigricans. *Round black-headed Bog-ruſh.* Culm naked, roundiſh, yet ſomewhat two-edged, about a foot high. Leaves roundiſh with a ridge. One valve of the common glume long and pointed. In fens and bogs. June. P.

3. Ferrugineus. *Brown Baſtard Cyperus.* Culm naked, round, ſhort, with a double ſpike. The longer valve of the glume equals the ſpike in length. July. P. In bogs on high moors. Wales, Weſtmoreland, and Iſle of Skye.

4. Compreſſus. *Compreſſed Baſtard Cyperus.* Culm naked, ſomewhat triangular. Glume of one valve, with a compreſſed diſtich ſpike. June, July. P. On turfy bogs.

5. Albus. *White flowered Ruſh-graſs.* Culm triangular, leafy, about a foot high. Panicle erect, broad, white. Leaves extremely narrow, convoluted. July. P. In fens.

CYPERUS. Spike imbricated on both ſides. Corolla 0. Seed 1, naked.

1. Longus. *Sweet Cyperus,* or *Engliſh Galingale.* Culm about three feet high, triangular, leafy; a leafy ſupradecompoſite umbel, with naked foot-ſtalks, and alternate ſpikes.

ſpikes. Leaves harſh and ſomewhat angular. Root long. Odoriferous. July. P. In fens, &c. S. Brit. *Ger.* 30. 1.

2. Nigricans. *Black-headed Cyperus.* Culm cylindrical, naked. Spikes in an oval head. Glume bivalve. Auguſt. P. in bogs.

SCIRPUS. Glumes chaffy and imbricated on all ſides. Corolla 0. Seed 1, beſet with ſhort hair.

1. Paluſtris. *Club-ruſh.* Culm about a foot long, naked, round, in bundles, each culm terminated by a ſingle cylindrical ſhort ſpike. July. P. On the banks of rivers, ditches, &c. frequent. *Ger.* 1631. 7. *Eng. Bot. tab.* 131.

2. Cœſpitoſus. *Dwarf Club-ruſh.* Culms ſix or eight inches long, naked, ſtriated, in bundles, each culm terminated by a ſingle ſhort ſpike, with a bivalve calyx, one valve longer than the other. A ſhort narrow ſtrap about the middle of the culm. July P. In wet paſtures, and ſometimes on high ground.

3. Pauciflorus *Chocolate-headed Club-ruſh.* Culm ſtriated, naked; ſpike terminal with few flowers, which are longer than the calyx; calyx bivalve. Radical leaves as high as the ſtalk. *Lightf. Append.* Highlands of Scotland. *Hudſon* thinks it a variety of the laſt. *Ger.* 21. 3.

4. Acicularis. *Leaſt upright Club ruſh.* Culm about two inches long, naked, round, with an oval bivalve ſpike. Leaves curved, rigid, cylindrical. On bogs, &c. Auguſt. P.

 5. Flui-

5. Fluitans. *Floating Club-ruſh.* Culm round, naked, leafy, ſoft, ſhort. Spike ſingle. Leaves linear, plane, in alternate bunches. In ponds and ditches. July, Auguſt. P.

6. Lacuſtris. *Bull-ruſh.* Culm naked, round, five or ſix feet high, with ſeveral oval ſpikes on ſhort foot-ſtalks, near the ſummit. Common in rivers and fens. July, Auguſt. P. *Ger.* 31. 3.

7. Holoſchoenus. *Round headed Bull-ruſh.* Culm naked, round, tall, pointed, with ſeveral roundiſh ſpikes near the top, on foot ſtalks, with a diphyllous unequal involucrum. July P. On the ſea-coaſt. S. Brit. *H. ox.* viii. 10. 17.

8. Romanus. *Roman Club-ruſh.* Culm cylindrical, very ſlender, naked; ſpike lateral, compact; floral leaf bent back. July. P. *Hudſ.* S. Brit.

9. Setaceus. *Leaſt Ruſh*, or *ſmall Plymouth Ruſh-graſs.* Culm naked, round, pointed, about a foot high. Spikes lateral, ſeſſile, few. Leaves numerous, cylindrical, and no thicker than horſe hair. In wet ſandy ground. July, Auguſt. A.

10. Mucronatus. *Pointed Bull-ruſh.* Culm triangular, naked, pointed, about a foot and half long, with a naked conglomerate browniſh looſe lateral ſpike. Leaves ſhort, few. July, Auguſt. P. On the ſea-coaſt, and on the banks of rivers. S. Brit.

11. Maritimus. *Round Rooted Baſtard Cyperus.* Culm triangular, naked, with a leafy conglobate looſe ſpike. Leaves ſtiff and ſharp-

ſharp-edged. On the ſea-coaſt and banks of rivers. Aug. P. *Ger.* 31. 5.

12. Sylvaticus. *Millet Cyperus-graſs.* Culm triangular, leafy, about half a yard high, with a leafy umbel, compoſed of crowded ſpikes on ſupradecompoſite naked foot-ſtalks. Leaves long and ſomewhat broad. July. P. In wet ground. *Ger.* 30. 5.

ERIOPHORUM. Glumes, chaffy, imbricated on all ſides. Corolla 0. Seed 1, environed by long down.

1. Polyſtachion. *Cotton-graſs.* Culm round, ſlender, about a foot high, with a few plane leaves, and terminated by a pedunculated pendulous ſpike, reſembling when ripe a bale of cotton. June, July. In wet ground. P. *Curt.* iv. 37.

2. Vaginatum. *Hare's-tail Ruſh.* Culm ſheathed, round, about eight or ten inches long, with a ſingle downy ſpike. Leaves cylindrical, red in the ſpring, and numerous from the root. In bogs on high moors. Early in the ſpring. P. *Curt.* ib.

NARDUS. Calyx 0. Corolla bivalve, cloſed, forming a pericarpium to the ſeed, which is ſingle.

1. Stricta. *Mat-graſs, or Small Mat-weed.* Culm about a foot high, with an upright, ſlender, compact, one-ſided ſpike. Leaves like ruſhes. In fens, bogs, &c. June, Auguſt. P. *Ger.* 1631. 3.

II. DIGYNIA.

Piſtilla 2.

PHALARIS. Calyx a glume, of two valves, of equal length; a ridge along the back of each, and including the corolla, which is bivalve, and leſs than the calyx.

1. Canarienſis. *Manured Canary-graſs.* Panicle ſubovate. Culm round, ſlender, jointed, from one to two feet high. Keel ſmooth. A ſingle narrow pointed leaf at each joint. Seed white. June to Sept. A. S. Brit. *Ger.* 80. 1.

2. Arundinacea. *Reed Canary-graſs*, or *Great Reed-graſs.* Culm jointed, branched, four or five feet high. Panicles five or ſix inches in length, oblong, bellying. Leaves broad, ſtriated. Keel rough. July. P. Banks of rivers. *Ger.* 26. 2.

3. Arenaria. *Sea P.* Panicle long, ſpike-form. Valves of the glume ſpear-ſhaped. Keel fringed. July. P. *Hudſ. Woodw.* S. Brit.

4. Phleoides. *Cat's tail. P.* Panicle cylindrical, ſmooth, ſpike-form, diviſible into lobes, 2½ inches long; florets rarely viviparous. Firſt found in Britain by Woodward and Crowe, near Swaffham, Norf. 1780. Found likewiſe in the fields, below King's Weſton near Briſtol.

PANICUM. Calyx a trivalve glume, containing a ſingle flower; one valve leſs, and behind the other. Corolla bivalve, unequal, adhering to the ſeed, which is ſingle.

1. Viride.

1. Viride. *Green Panick* or *Corn-graſs.* Culm ſlender, round, jointed, procumbent, about five inches long. Spike ſingle, reddiſh, ſhort, cylindrical, harſh. Leaves one at each joint, embrace the culm. Seed ſtringy. July, Auguſt. A. *Curt.* iv. 44.

2. Cruſgalli. *Looſe Panick-graſs.* Culm jointed, leafy, from two to four feet high. Spikes large and looſe, divided, ſubdivided, and bearded. Spike ſtalk pentangular. Auguſt. A. *Curt.* iv. 41.

3. Sanguinale. *Cock's-foot Panick-graſs.* Culm erect, jointed, reddiſh. Spikes like fingers, knotted inſide the baſe. Flowers in pairs. Leaves broader than common, with punctured vaginæ. Aug. A. *Curt.* iv. 41.

4. Dactylon. *Creeping Panick-graſs.* Spikes fingered like the laſt. Leaves narrow, Shoots from the root creeping. July. P. In ſandy ground. *Ger. Herb.* 28. 3.

5. Verticillatum. *Rough-eared Panick-graſs.* Little cluſters, quatern. Partial involucrum of two briſtles, briſtles rough, uniflorous. Culms diffuſe. June, July. A. *Curt.* iv. 44.

PHLEUM. Calyx a bivalve, ſeſſile, narrow, truncated, forked glume. Corolla leſs than the calyx, bivalve, unequal, ſtigma plumoſe. Seed 1.

1. Pratenſe. *Meadow Cat's-tail Graſs.* Culm ſimple, ſlender, jointed, with vaginal leaves at each joint. Spike cylindrical, two or three inches long, with fringed glumes. July. P. *Park.* 1170. 1.

2. Arenarium. *Daniſh Cat's-tail Graſs,* or *Sea Canary Graſs.* Culm branched. Spike oval,

oval, with fringed glumes. On the ſea-ſhore. July. A. *Park.* 1170. 4.

3. Nodoſum. *Bulboſe Cat's-tail Graſs.* Culm inclining. Spike cylindrical, ſmooth. Antheræ white. Leaves oblique. Root bulboſe. July, Auguſt. P. In barren paſtures and near public footpaths. *Ger.* 12.

4. Paniculatum. *Branched P.* Panicle ſub-cylindrical, ſpike-form. Calyx ſmooth; ſtem ſometimes branched. July. P. In meadows. *Hudſ.*

5. Alpinum. *Alpine P.* Spike ovato cylindrical, black, or rather deep purple, near an inch long. Valves of the calyx bearded. N. Brit. *Lightf. app.*

6. Crenitum. *Bearded P.* Glume ligulate, hairy, with very long beards. Culm ſub-erect. Panicle cloſe, ſpike-form. *Hudſ.*

ALOPECURUS. Calyx a glume of two equal valves, containing a ſingle flower. Corolla a ſingle concave valve, the length of the calyx, with a long ariſta. Seed 1.

1. Bulboſus. *Bulboſe Fox-tail Graſs.* Culm erect. Spike cylindrical. Root bulboſe. In paſtures. This graſs is ſaid by Hudſon to degenerate into the geniculatus of which he makes it a variety. P. S. Brit.

2. Pratenſis. *Meadow Fox-tail Graſs.* Culm tall, erect. Spike ſomewhat looſe. Glume villous. Corolla without ariſta. In meadows. May. P. *Ger.* 11. 1.

3. Agreſtis. *Field Fox-tail Graſs.* Culm inclining. Spike cylindrical, long and ſmall. Glumes ſmooth. June, July. P. In fields near public roads. *Curt.* ii. 17.

4. Geniculatus.

4. Geniculatus. *Flote Fox tail Graſs.* Culm elbowed at each joint, floating. Spike long, ſlender, ſmooth. In ponds, &c. July, Auguſt. P. *Ger.* 14. 2.

5. Paniceus. *Hairy Fox tail Graſs.* Culm two feet high. Panicle ſubſpicate, bearded, woolly, long. In wet ditches, &c. July. P. S. Brit.

6. Monſpelienſis. *Bearded Fox tail.* Much reſembles the laſt, but three times as large. Glumes rough, with a tubercle at the baſe. June, Auguſt. In moiſt meadows. *Park.* 1166. 3. S. Brit.

MILIUM. Calyx a bivalve glume, containing a ſingle flower. Corolla very ſhort, of two unequal valves. Stigmata like pencils. Seed 1.

1. Effuſum. *Millet Graſs.* Culm about three feet high. Panicle four or five inches long, and the ſame in diameter, ſpreading wide. June, July. A. In moiſt woods. *Curt.* iv. 43.

2. Lendigerum. *Panic Millet Graſs* Panicle ſubſpicate. Culm oblique. Glume ſwoln at the baſe. Flowers ovate, bearded. Seed amber coloured. *With.* A. Aug. Sept. In meadows. S. Brit.

AGROSTIS. Calyx a bivalve glume, containing a ſingle flower. Corolla of two uneqal valves, ſomewhat leſs than the calyx. Styles reflex and hairy. Stigmata longitudinally rough.

* *Bearded.*

1, Spicaventi. *Silky Bent-graſs.* Culm three or four feet high. Panicle near a foot long, looſe, waving,

waving, ſilky; with a very long ſtiff ariſta growing from the exterior petal of each flower. July. A. In fields.

2. Rubra. *Red Bent-graſs.* Panicle pyramidal, reddiſh, and ſpreading when in flower. Exterior petal ſmooth, terminated by a recurved ariſta. July. A. In meadows, &c.

3. Canina. *Brown-bent graſs.* Culm proſtrate. Calyx elongated, coloured; dorſal ariſta of the petals recurved, with a brown joint in the middle. Panicle not ſpread. July, Auguſt. P. In wet meadows.

4. Alpina. *Alpine Bent-graſs.* Culm erect. Ariſta elbowed. Leaves ſetaceous. Corolla hairy at the baſe. 1. Rough. 2. Smooth. *With.*

5. Vinealis. *Short-bearded Bent-graſs.* Calyx coloured. Flowers twice as long as thoſe of the *canina.* Panicle cloſe 3—5 inches long. Culm aſcending. *Shreb.*

** *Beardleſs.*

6. Stolonifera. *Creeping Bent-graſs.* Culm about a foot long, creeping and ſtriking root; vagina of the upper leaf inflated. Branches of the Panicle denſe, forked. Glumes equivalve, minute. Aug. P. In meadows, but not common. *Ger.* 26. 1.

7. Capillaris. *Fine Bent-graſs.* Panicle ſlender, capillary, ſpreading, Calyces equal, pointed, coloured. Auguſt. P. Common in meadows, &c.

8. Alba. *Marſh Bent-graſs.* Culm creeping and ſtriking root. Panicle denſe. Calyces equal,

equal, coloured. July. P. In ditches, &c. frequent.

9. Minimia. *Small Bent-graſs.* Panicle filiform. Culm ſlender and very ſhort. A. In Wales. Flowers early in the ſpring.

10. Sylvatica. *Wood Bent-graſs.* Panicle denſe. Calyces equal. Corolla before flowering ſhorter, and after, much longer than the calyx. Auguſt. P. In the woods near Hampſtead, &c.

11. Pumila. *Dwarf Bent-graſs.* Culms ſmooth, in cluſters, two or three inches high. Panicle branched, generally inclining to one ſide. Flowers dull-grey purple, numerous. *Lightf.* Vol. 2. frontiſp.

AIRA. Calyx a bivalve glume containing two flowers, without the rudiment of a third. Corolla bivalve, reſembling the calyx. Stigmata downy.

* *Beardleſs.*

1. Aquatica. *Water Hair-graſs.* Culm creeping. Panicle ſpreading. Flowers ſmooth, longer than the calyx. Leaves flat, narrow. Taſte ſweet. June, July. P. On the banks of rivers, &c. *Curt. pl.* 5.

2. Cœrulea. *Purple Hair-graſs.* Culm long and without joints. Panicle compact. Flowers on peduncles, pointed, convolute. Leaves flat. Auguſt. P. On bogs and in moiſt meadows.

** *Bearded.*

3. Cæſpitoſa. *Turfy Hair-graſs, or great Corn-graſs.* Culm about four foot high, but ſlender. Panicle large, ſpreading. Petals hairy at the baſe. Ariſtæ erect but ſhort. Leaves long,

long, ſoft, flat. July P. In moiſt meadows and woods. *Ger. Herb.* 5. 1.

4. Flexuoſa. *Twiſted Hair-graſs.* Culm almoſt naked. Panicle whitiſh purple, divaricated, with winding foot-ſtalks. Leaves like hair, ſhort. In rocky barren ground. July. P.

5. Montana. *Mountain Hair graſs.* Panicle white, naarowed. Ariſtæ long, twiſted. Glumes hairy at the baſe. Leaves like hair. July, Auguſt. P. On high barren ground.

6. Caneſcens. *Grey Hair-graſs.* Panicle growing from a ſheath. Ariſta girt in the middle with denticles, brown beneath, whitiſh above, and ſomewhat clavated. Leaves like hair. July. A. Sandy ground, near the Sea.

7. Præcox. *Early Hair-graſs.* Leaves like the former. Sheath angular. Spike looſe, ſmall, whitiſh, with ariſtæ at the baſe of the floſcules. Culm ſhort. May, June, A. In ſandy ground. *Curt.* iii. 25.

1. Caryophyllea. *Silver Hair-graſs.* Leaves like the reſt. Panicle ſilvery-purple, divaricated; flowers diſtant; ariſtæ twiſted. Culm ſhort. July. A. In ſandy ground.

MELICA. Calyx a bivalve glume containing two flowers, with the rudiments of a third between. Corolla bivalve, beardleſs. Stigmata hairy.

1. Nutans. *Melic-graſs*, or *Red Oat-Graſs.* Panicle drooping, ſimple, red. June, July. P. In moiſt woods. *Park.* 1151. 5.

2. Cœrulea. *Purple Melic-graſs.* Panicle denſe; flowers cylindrical. Culm with a ſingle

joint. Leaves flat. Root bulboſe. Auguſt. P. On wet barren ground.

POA. Calyx a beardleſs bivalve glume, containing many flowers. Spike oval. Corolla bivalve, compreſſed, pointed, ſomewhat longer than the calyx, and rough at the edges. Styles hairy.

1. Aquatica. *Reed Meadow-graſs* Panicle diffuſe; ſpiculæ with ſix linear flowers. Culm tall. Leaves broad. July. P. On the banks of rivers, &c. *H. ox.* iii. *p.* 201.

2. Alpina. *Alpine Meadow-graſs.* Panicle diffuſe, with many branches. Spiculæ cordate, with ſix florets. July, Auguſt. In moiſt meadows. Var. viviparous.

3. Trivialis. *Common Meadow-graſs.* Culm erect, cylindrical. Panicle diffuſe; ſpiculæ with three flowers, downy at the baſe. June—Auguſt. P. In meadows and paſtures every where. *Curt.* ii. 15.

4. Anguſtifolia. *Narrow-leaved Meadow-graſs.* Culm erect, cylindrical. Panicle diffuſe; ſpiculæ with four flowers, downy on footſtalks. July. A. In woods and hedges. *H. ox.* viii. 5. 19.

5. Pratenſis. *Great Meadow-graſs.* Culm erect, cylindrical, half a yard high. Panicle diffuſe; ſpiculæ with five flowers, ſmooth. June, July. P. In meadows, &c. *Curt.* ii. 14.

6. Annua. *Annual Meadow-graſs*, or *Suffolk-graſs.* Culm oblique, compreſſed. Panicle diffuſe at right angles; ſpiculæ obtuſe. May—September. A. In meadows, &c. every where. *Curt. pl.* 6.

7. Maritima.

7. Maritima. *Sea Meadow-graſs.* Culm ſix inches, elbowed. Calyces edged with purple; ſpiculæ ſub-cylindrical, of ſix or eight florets. Panicle denſe, branched, pointing one way. June, July. P. Sea coaſt.

8. Piloſa. *Hair-leaved Meadow-graſs.* Panicle ſpreading, ſtiff. Radical leaves like hair. May, June. A. In dry paſtures.

9. Rigida. *Hard Meadow-graſs.* Culm ſhort, ſtiff. Panicle oblong, tapering to a point, branched. Branches alternate; flowers on one ſide only. Spiculæ with ſix or eight flowers. Calyx carinated. July. A. On walls and ſandy ground. *Curt.* ii. 24.

10. Compreſſa. *Creeping Meadow-graſs.* Culm obliqne, compreſſed. Panicle denſe, with flowers on one ſide only. June. A. On walls and other dry places.

11. Nemoralis. *Wood Meadow-graſs.* Culm curved. Panicle tapering; ſpiculæ generally of two flowers, pointed, rough. Leaves narrow. June. P. In woods, &c.

12. Bulboſa. *Bulboſe Meadow-graſs.* Culm with knobs at the bottom. Panicle criſp, ſpreading a little. Spiculæ with four flowers. July. P. In meadows, &c.

13. Diſtans. *Diſtant Meadow-graſs.* Panicle with branches ſub-divided. Florets five, diſtant, obtuſe. On barren ſandy ground. June, July. P.

14. Criſtata. *Creſted Meadow-graſs.* Panicle almoſt a ſpike. Calyx ſomewhat hairy,

generally containing four flowers, which are longer than the foot-ſtalk. Petals bearded. July, Aug. P. On high barren ground.

BRIZA. Calyx a bivalve glume containing ſeveral flowers. Spiculæ diſtich, heart-ſhaped. Valves heart-ſhaped, obtuſe; the interior minute. Seed 1, very ſmall.

1. Minor. *Small Quaking-graſs.* Spiculæ triangular. Flowers ſeven, ſhorter than the calyx. July. P. In paſtures, rare. *Park.* 1165. 5.

2. Media. *Common Quaking-graſs.* Panicle looſe, Spiculæ oval. Flowers ſeven, longer than the calyx. Culm about three feet high, with ſingle vaginal leaves at the joints. Glumes on long ſlender foot-ſtalks. July. P. In paſtures, &c. *Ger. Herb.* 86. 2.

DACTYLIS. Calyx a bivalve acute carinated glume, longer than the flower. Corolla alſo a glume, compreſſed, acute. Antheræ forked. Stigmata ſimple.

1. Cynoſuroides. *Smooth Cock's-foot Graſs.* Culm two feet high, with ſix broad, ſmooth leaves, rough at the edges and longer than the culm. Spikes on one ſide only, diverging, rough and numerous. Calyx contains a ſingle flower. Auguſt, Sept. P. In marſhes, &c.

2. Glomerata. *Rough Cock's-foot Graſs.* Panicle of ſeveral cloſe ſpikes, on one ſide only. June—Auguſt. P. In meadows, &c. Vagina of the leaves biangular. Leaves rough. *Park.* 1182. 5.

CYNOSURUS. Calyx a bivalve glume containing ſeveral flowers; proper receptacle unilateral, leafy. Corolla bivalve; exterior valve longeſt and concave.

1. Criſtatus. *Creſted Dog-tail Graſs.* Culm about two feet high, jointed, with long narrow vaginal leaves. Bracteæ, or floral leaves, pinnatifid. Spike unilateral, fringed, above an inch long, browniſh. Aug. P. In meadows and paſtures. *Park.* 1160. 3.

2. Echinatus. *Rough Dog-tail*, or *Fox-tail Graſs.* Bracteæ exterior only, alternately pinnated, bearded. Calyx bifloral, ſharp-pointed. Floreſcence an unilateral bunch, rough, harſh. July. A. On ſandy ground. S. Brit. *Park.* 1168. 6.

3. Cœruleus. *Blue Dog-tail Graſs.* Culm ſhort. Racemus, or bunch, entire, blue. Bracteæ intire. July. P. In high paſtures, &c.

FESTUCA. Calyx a bivalve, upright, glume containing ſeveral flowers. Corolla bivalve, longer than the calyx, cloſed, pointed. Spiculæ oblong, ſomewhat cylindrical. Styles ſhort, reflex. Stigmata ſimple. Glumes pointed.

* *Panicle unilateral.*

1. Ovina. *Sheep's Feſcue-graſs.* Culm ſquare, with a few hair-like leaves. Panicle bearded, compact. June, July. P. In high paſtures.

2. Duriuſcula. *Hard Feſcue-graſs.* Panicle oblong, drooping, harſh, branched towards the bottom; ſpiculæ pointing upwards,

ſix-flowered. Leaves like ſmall ruſhes. In dry meadows, &c. June. P.

3. Rubra. *Purple Feſcue-graſs.* Panicle looſe, rough, red. Spiculæ ſix-flowered, bearded, except the laſt flower. Culm ſemicylindrical. June. P. In dry meadows.

4. Myurus. *Wall Feſcue-graſs.* Culm about two feet high. Panicle ſpicate, long, drooping. Calyces very ſmall. Flowers rough, long-bearded. June. A. On walls, &c. *Ger.* 29. 2.

5. Bromoides. *Barren Feſcue-graſs.* Spiculæ erect. Calyx with one valve long and pointed, the other ſmall, intire. May, June. A. In barren ground.

6. Elatior. *Tall Feſcue-graſs.* Panicle erect, branched. Spiculæ bearded, the exterior cylindrical. Leaves not very narrow, ſmooth. July. P. In meadows, &c. but rare.

7. Amethyſtina. *Red Feſcue-graſs.* Panicle waved; ſpiculæ inclined, bent one way, and almoſt beardleſs. Leaves ſetaceous. In meadows, June, July. P.

8. Dumetorum. *Pubeſcent Feſcue-graſs.* Panicle ſpike-form, pubeſcent. Leaves filiform. Culm ſixteen inches; joints large. June, July. P. In hedges.

9. Glabra. *Smooth Feſcue-graſs.* Panicle three inches, branched, erect, compact; ſpiculæ ſubulate of three florets, bearded. Culm twelve inches, ſmooth. *Lightf. Append.* July. P.

10. Cambrica. *Welſh Feſcue-graſs.* Panicle lateral, erect, branched; ſpiculæ bearded, ſmooth. Leaves flat, naked. *Hudſ.* July, Aug. P.

** *Panicle equal.*

11. Decumbens. *Small Feſcue-graſs.* Panicle erect. Spiculæ beardleſs. Calyx longer than the flowers. Culm decumbent, ſhort. Aug. P. In moiſt barren paſtures.

12. Fluitans. *Floting Feſcue-graſs.* Panicle branched, erect, long. Spiculæ, two or three on each branch, on very ſhort foot-ſtalks, cylindrical, beardleſs. In fens and ditches frequent. June, July. P. *Curt. pl.* 7.

BROMUS. Calyx a bivalve, multiflower, ſpreading glume. Corolla bivalve; inferior valve larger than the other, obtuſe, bifid, with an ariſta from below the apex. Spiculæ oblong, cylindrical, bilateral.

1. Secalinus. *Field Broom-graſs.* Culm three feet high. Panicle ſpreading; glumes ſmooth; ſpiculæ oval; beards ſtraight. Leaves rough on one ſide. May, June. A. In meadows, &c.

2. Sterilis. *Barren Broom-graſs,* or *Wild-Oats.* Culm about one foot and a half high. Panicle ſpreading, drooping; ſpiculæ oblong, bilateral. Glumes large, ſharp, ſix or ſeven flowered. Leaves ſmooth and not very narrow. June, July. A. Woods, fields, hedges, &c. frequent. *Curt.* i. 4.

3. Arvenſis. *Corn* or *Wood Broom-graſs.* Panicle branched, ſcattered, drooping. Spiculæ oblong.

oblong, compreſſed. Leaves ſomewhat broad, ſoft. July. P. In corn-fields, &c.

4. Giganteus. *Tall Broom-graſs.* Panicle branched, drooping. Spiculæ four-flowered; ariſtæ ſhort. Leaves broad. Auguſt. P. In moiſt woods and ditches.

5. Racemoſus. *Cluſter Broom-graſs.* Panicle a ſimple racemus or bunch; pedicles alternate, bearing a ſingle oval pointed flower. Leaves woolly beneath. July. Auguſt. A.

6. Pinnatus. *Spiked Broom-graſs.* Culm undivided. Spikes alternate, ſub-ſeſſile, cylindrical; the plane ſide towards the culm. Beards terminal. June. P. In dry meadows.

7. Squarroſus. *Rough Broom-graſs.* Panicle nodding; ſpiculæ oval; beards divaricate. In corn-fields. July. A.

8. Aſper. *Great branched Broom-graſs.* Panicle nodding, rough, twelve inches; ſpiculæ hairy, bearded, about ten in number. Leaves rough. Culm ſix—eight feet. Auguſt. A. *Lightf. App. Curt.* ii. 18.

STIPA. Calyx a bivalve, one-flowered, looſe, pointed glume. Corolla bivalve, equivalve; the exterior terminated by a very long twiſted ariſta, jointed at the baſe.

1. Pennata. *Feather-graſs.* Beards feathered; ten inches long. On mountains. July, Auguſt. P. *Ger.* 42. 6.

AVENA. Calyx a bivalve looſe glume containing many flowers. Corolla bivalve, with a dorſal ſpiral ariſta.

1. Elatior. *Tall Oat-graſs.* Culm about three feet high, jointed. Panicle long and looſe. Calyx with two flowers, the hermaphrodite floſcule beardleſs, the male bearded. Root three or four bulbs one above the other. Leaves harſh. July, Auguſt. P. In meadows, &c. *Curt.* iii. 32.

2. Nuda. *Naked Oats*, or *Pilcorn.* Paniculate, Calyx three-flowered. Receptacle exceeds the calyx. July. A. In cornfields, but ſcarce. *Ger.* 75. 2.

3. Fatua. *Bearded Oat-graſs.* Panicle ſpreading; calyces three-flowered, baſe of the floſcules hairy. Culm jointed. Aug. P. In corn-fields. *Ger.* 77.

4. Flaveſcens. *Yellow Oat-Graſs.* Panicle looſe, yellowiſh; calyces three-flowered, ſhort, all the floſcules bearded. July. P. *Curt.* iii. 35.

5. Pratenſis. *Meadow Oat-graſs.* Panicle ſpicate. Calyces five-flowered. Leaves rolled inwards. July. P. In high paſtures, on a chalky ſoil.

6. Pubeſcens. *Rough Oat-graſs.* Calyces generally three-flowered, baſe hairy. Panicle branching, purpliſh ſhining white. Leaves plane, downy. On downs and dry paſtures. June. P.

7. Strigoſa. *Scrannel Oatgraſs.* Panicle, biflorous; outer valve of the corolla ending in a double beard ſhorter than the valve. Calyx the length of the florets, ribbed. The ariſta from the back, twice as long as the florets. Among oats, barley, rye. June, Aug. A. *With.*

ARUNDO

ARUNDO. Calyx a bivalve glume, erect. Corolla bivalve. Florets compact, beſet with down. Seed 1, downy.

1. Phragmites. *Common Reed-graſs.* Culm jointed, hollow. Calyces five-flowered. Panicle looſe. Leaves long, ſharp-edged. July. P. In rivers, lakes, &c. frequent. *Ger.* 36. 1.

2. Epigejos. *Small Reed-graſs.* Panicle erect, green; calyx one-flowered. Leaves ſmooth beneath. July. P. On barren hills.

3. Calamagroſtis. *Branched* or *Woolly Reed-graſs.* Culm about four feet high, rough, with few joints, branched. Calyces one-flowered. Panicle ſpicate, ſoft, white. June, July. P. In moiſt woods and hedges. *Ger. Herb.* 9. 1.

4. Arenaria. *Sea Reed-graſs,* or *Mat-weed.* Spike long, ſoft. Calyces one-flowered. Leaves ſharp pointed, the edges rolled inwards. June, July. P. On the ſea-ſhore. *Ger.* 42. 3.

LOLIUM. Calyx a glume of one leaf, containing ſeveral flowers on bilateral ſeſſile ſpikes.

1. Perenne. *Red Darnel.* Culm jointed, about a foot long. Spikes beardleſs, flat, red. Leaves narrow. June. P. In fields and roads frequent. *Ger.* 78. 2.

2. Temulentum. *White Darnel.* Culm two feet or more in length, ſlender, jointed. Spike bearded, flat, near a foot long. July, Auguſt. A. In corn-fields, *Ger.* 78. 1.

3. Bromoides. *Sea Darnel.* Panicle entire, unilateral. Spiculæ bearded. Root fibrous. Culms many, 9 inches high, branched. Leaves ſhorter than their Stalks. *Huds.* May, June. A. In looſe ſand.

ROTTBOELLA. Spike jointed, ſub-cylindrical, or filiform. Calix ovato-lanceolate, flat, divided. Florets alternate on a waved ſpine.

1. Incurvata. *Curved Hard-graſs.* Spike cylindrical, but tapering towards the apex. Glume ſubulate, of 2 valves, beardleſs, external. Valves of the corolla equal, browniſh white. July, Aug. P. Sea-coaſt.

ELYMUS. Calyx lateral, bivalve, aggregate, containing ſeveral flowers. Spiculæ two.

1. Arenarius. *Sea Lyme-graſs*, or *Quick-graſs.* Culm jointed, about a foot long. Spike erect, long, downy. Spiculæ with two flowers, beardleſs, ſhorter than the calyx. Leaves involuted, ſharp-pointed, whitiſh. May, June. P. On the ſea-ſhore.

2. Caninus. *Bearded Quick-graſs*, or *Dog-graſs.* Spike drooping, contracted. Calyces ſubulate, with four florets, bearded. June, July. P. In woods and hedges *Huds.*

3. Europæus. *European Lime-graſs.* Spike erect; ſpiculæ biflorous, equaling the involucrum. In habit a *hordeum.* In woods in the north frequent. June. P. *Park.* 1144. 7.

SECALE

SECALE. Calyx a glume of two leaves, containing two flowers. Corolla bivalve, the exterior ending in a beard.

1. Villoſum. *Wood Rye-graſs.* Scales of the calyx wedge-ſhaped; fringe of the glume woolly. July. A. In woods and hedges.

HORDEUM. Calyx a glume with ſix leaves, containing three florets, ſeſſile. Corolla bivalve, bearded.

1. Murinum. *Wall Barley-graſs.* Culm about ſix inches long. Spike reſembles an ear of barley. Lateral flowers male, bearded. April, July. A. On walls, &c.

2. Pratenſe. *Meadow Barley-graſs.* Without beards, involucrum briſtly, rough. Lateral flowers male. June. P. In moiſt paſtures.

3. Marinum. *Sea Barley-graſs.* Lateral flowers male without beards, the internal involucrum of the lateral flowers ſemiovate. May, June. A. In meadows, &c.

TRITICUM. Calyx a bivalve glume, ſolitary, ſeſſile, generally containing three florets. Corolla bivalve, one valve bellying, the other plane.

1. Junceum. *Ruſh Wheat-graſs.* Calyx truncated, with five flowers. Leaves involuted, pungent, ruſh-like. P. On the ſea coaſt.

2. Repens. *Common Wheat-graſs, Dog's-graſs,* or *Quick-graſs.* Calyx taper, pointed, three-flowered. Culm jointed. Root creeping. Leaves ſharp-edged. P. June, Auguſt.

3. Maritimum.

3. Maritimum. *Sea Wheat-graſs.* Culm about ſeven inches long, ſometimes branched a little. Spike branched; ſpiculæ, with eight or ten florets, alternate, ſeſſile. Leaves as long as the culm, with purpliſh vaginæ. May, June. P. On the ſea-coaſt. *Poa loliacea. Huds.*

III. TRIGYNIA.

Piſtilla 3.

MONTIA. Calyx, perianthium, of two leaves. Corolla monopetalous, irregular, quinquepartite. Capſule unilocular, trivalve. Seeds 3.

1. Fontana. *Water Chickweed*, or *Blinks.* Culm creeping, reddiſh, very ſhort, branched. Leaves oppoſite. Flowers ſmall, white, on long foot ſtalks. *N. B.* The calyx has ſometimes three leaves, and the corolla five ſtamina. April. A. In brooks, &c.

TILLÆA. Calyx, with three or four diviſions. Petals three or four, oval. Capſules three or four.

1. Muſcoſa. *Moſſy T.* Stems proſtrate, at firſt almoſt erect, generally red, grow longer after flowering. Parts of fructification, conſtantly three. Leaves in pairs, fleſhy. On dry heaths. Norfolk and Suffolk. *Woodw.* May, June. P. *With.*

HOLOSTEUM. Calyx five-leaved. Petals five. Capſule one cell, ſubcylindrical, opening at the top.

1. Umbel-

1. Umbellatum. *Umbelliferous Mouſe-ear.* Stem above bare of leaves. Leaves oval. Petals white, almoſt entire. Fruit pendant. Sandy corn-fields. April, May. A. *Eng. Bot. tab.* 27.

POLYCARPON. Calyx of five leaves, oval. Petals five, ſhort, oval, notched, alternate. Capſule unilocular, trivalve.

1. Tetraphyllum. *Four-leaved All-ſeed.* Stem branched, proſtrate. Leaves in fours. Dry ſandy ground. May, Aug. A.

CLASS

CLASS IV.

TETRANDRIA.

Stamina 4.

MONOGYNIA.

Piſtillum 1.

** Corolla irregular, of one Petal.*

DISPACUS. Common calyx of many leaves, containing ſeveral flowers. Proper calyx above the germen, very minute. Corolla monopetalous, quadrifid, tubular, the external ſegment largeſt. Receptacle conic, with a great number of ſharp paleæ. Seed ſingle.

1. Fullonum. *Great Teaſel.* Culm three or four feet high, branched, beſet with prickles. Leaves ſeſſile, ſerrated, oppoſite, with a row of prickles on the back middle rib. Paleæ of the fruit curved downward. July. B. In hedges. *Ger. Herb.* 1167. 1.

2. Sylveſtris. *Wild Teaſel.* Leaves connected, entire. Paleæ ſtraight. Com. involucrum of long leaves encircling the head. June, Aug. B. *Ger. Herb.* 1167. 2. *Park.* 984. 2. *Curt.* iii. 34.

3. Piloſus. *Small Wild Teaſel,* or *Shepherd's Staff.* Head roundiſh, about the ſize of a nutmeg,

meg. Leaves on foot-ſtalks, with two ſmall wings at the baſe. In moiſt ground, hedges, &c. Aug. B. *Curt. pl.* 10.

SCABIOSA. Common calyx, of many leaves, ſurrounding the receptacle in various ſeries, containing ſeveral flowers, and ſpreading. Proper calyx double, above the germen. Corolla monopetalous, tubular, of four or five ſlight ſegments. Receptacle chaffy, roundiſh. Seed ſingle, crowned.

1. Succiſa. *Devil's-bit.* Corollulæ quadrifid, regular. Stem round, ſolid, ſingle. Branches near each other. Leaves oval, pointed, oppoſite. Flowers blue. June, Auguſt. P. In meadows, &c. *Ger.* 726.

2. Arvenſis. *Field Scabious.* Corollulæ quadrifid, radiant. Stems two or three, about three feet high, hairy, round, hollow. Leaves hoary, oblong, divided on the edges. Flowers numerous, blue. Auguſt. P. In corn-fields, &c.

3. Columbaria. *Leſs Field Scabious.* Corollulæ quinquifid, radiant. Radical leaves oval, notched; ſtem-leaves pinnated, very narrow, and briſtly. June, July. P. In high paſtures.

** *Corolla regular, of one petal, above the germen.*

SHERARDIA. Calyx ſmall, of one leaf, quadridentate, permanent. Corolla funnel-ſhaped, with four ſegments, acute, plane; tube long, cylindrical. Seeds two, tridentate.

1. Arvenſis.

1. Arvenſis. *Little Field Madder.* Stems ſeveral, ſquare, procumbent, hairy, branched, reddiſh. Leaves in whirls, at the joints of the ſtem. Flowers terminal, blue. May, Auguſt. A. In corn-fields. *Park.* 276. 5.

ASPERULA. Calyx ſmall, quadridentate. Corolla funnel-ſhaped; tube cylindrical, long; ſegments four, obtuſe, reflexed. Fruit two dry berries. Seed ſingle.

1. Odorata. *Woodroof.* Stems ſeveral, ſquare, weak, near a foot long. Leaves eight in number, in whirls, launce-ſhaped. Flowers white, in cluſters, on foot-ſtalks, odoriferous. May. P. In woods, &c. *Curt.* iv. 43.

2. Cynanchica. *Squinancy Wort.* Stems ſeveral, ſmall, weak, ſquare, upright, branched. Leaves ſmooth, narrow, four at each joint. Flowers terminal, in cluſters like umbels, reddiſh, ſmell ſweet. July. P. On chalky hills. *Eng. Bot. tab.* 33.

GALIUM. Calyx ſmall, of one leaf, with four teeth. Corolla regular, monopetalous, plane, without tube, with four ſegments, acute. Fruit two dry berries, each containing a ſingle ſeed.

1. Paluſtre. *White Lady's Bedſtraw.* Stem diffuſe, ſquare, ſlender, weak, about eighteen inches long. Lower leaves in fours, unequal, ſomewhat oval, pointed, upper leaves in ſixes. Flowers numerous, in cluſters, terminal, ſmall, white. Fruit ſmooth. July. P. Banks of rivers, &c. *Ger.* 1126. 2.

2. Uligi-

2. Uliginoſum. *Marſh Gooſe-graſs*, or *Cleavers*. Stem ſquare, weak, rough, about eight inches long. Leaves, generally ſix at each joint, inverſely ſerrated, launce-ſhaped, rough, rigid. Flowers white, terminal, in cluſters; corollæ larger than the fruit. Fruit ſmooth. July, Auguſt. P. On commons, moiſt paſtures, &c. Hampſtead-Heath.

3. Spurium. *Smooth-ſeeded Gooſe-graſs*. Stems ſquare, numerous, about a foot long; joints ſingle. Leaves launce-ſhaped, inverſely ſerrated, ſix round each joint, carinated, rough. Flowers white, terminal. Fruit ſmooth. June. A. In corn-fields, rare.

4. Puſillum. *Leaſt Lady's Bedſtraw*. Stems numerous, ſquare, five or ſix inches long. Leaves generally eight at each joint, ſomewhat imbricated, linear, acute, rough. Branches not very numerous, alternate. Flowers white, on foot-ſtalks twice divided. Seed ſmooth. Auguſt. P. On the mountains in Weſtmoreland. *Eng. Bot. tab.* 74.

5. Verum. *Yellow Lady's Bedſtraw, or Cheeſe-renning*. Stem firm, erect, brown, ſquare. Leaves generally eight in each whirl, linear, furrowed, pointed, brittle; and often reflex. Branches ſhort, generally two from each joint, terminating in ſpikes of ſmall yellow flowers. July, Auguſt. P. Common, in dry ground.

6. Mollugo. *Wild Madder*, or *great Baſtard-Madder*. Stem ſquare, branched, three or four feet long, very weak. Leaves a little ſerrated, eight

eight at each joint, ſmooth, ſoft, blunt-pointed. Flowers ſmall, white, numerous, in ſeveral ſpikes on the tops of ſpreading branches. June, July. P. Hedges, heaths, &c. common. *Ger.* 1118. 2.

7. Boreale. *Croſswort Madder* Stem erect, ſquare, reddiſh, about a foot long. Leaves, four at each joint, ſmooth, launce-ſhaped, tri-nerved. Flowers ſmall, white, in ſpikes on the tops of the branches. Seed rough. June—Auguſt. P. On hills in the north. *Eng. Bot. tab.* 105.

8. Aperine. *Cleavers* or *Gooſe-graſs.* Stem ſquare, very rough, jointed, very weak, two, three or four feet long, adheſive. Branches oppoſite. Joints hairy at the baſe. Leaves, eight or ten at each joint, narrow, pointed, above rough, beneath ſmooth, carinated. Seeds rough. Flowers white, ſmall, few on ſlender foot-ſtalks on the tops of the branches. May, Aug. A. In fields, &c. frequent. *Curt.* ii. 17.

9. Pariſienſe. *Leaſt Gooſe-graſs.* Stem about a foot long, weak, ſquare, rough. Leaves ſeven at each joint, narrow, pointed, rough, eſpecially on the edges. Branches oppoſite, ſhort, bearing ſmall white flowers, two or three on each foot-ſtalk. Seeds rough. July. P. On walls and in moiſt barren ground.

10. Procumbens. *Proſtrate Cleavers.* Leaves obovate, in ſixes, pointed; peduncles ternate. Stem ſmooth. *Lightfoot* thinks it a variety of the *G. Uliginoſum.* June, Aug. P. G. montanum of Huds.

11. Erectum.

11. Erectum. *Erect Cleavers.* Leaves in eights, ſmooth, launce-ſhaped, ſerrated. Panicles tripartite. Stem rough, flaccid. *Huds.* June, July. P. G. Scabrum of *Jacquin.*

12. Anglicum. *Small Cleavers.* Stem from a foot to a foot and half high, three cornered. Leaves in ſixes, pointed, reflected. Seeds ſmooth, larger than the Corolla. June, July. A. On walls and in barren paſtures.

RUBIA. Calyx minute, of one leaf, with four teeth, above the germen. Corolla of one petal, campanulate, with four ſegments, plane, acute. Fruit two round ſucculent ſmooth berries, with each a ſingle ſeed.

1. Peregrina. *Wild Madder.* Stem, about a foot long, ſquare. Leaves four at each joint, elliptical, ſmooth, and bright above, rough beneath. Flowers on the tops of the branches, yellow, ſmall. July, Auguſt. P. In the weſt of England frequent.

SANGUISORBA. Calyx of two very ſhort leaves, ſoon falling off. Corolla quadrifid, ſpreading, germen between the calyx and corolla. Capſule unilocular, opening tranſverſely. Seeds many, ſmall.

1. Officinalis. *Great wild Burnet.* Stem three feet high, round, ſtriated, ſmooth, hollow. Leaves pinnated, ſmooth, gloſſy, alternate. Spike ſhort, oval, brown. June, July. P. In meadows and paſtures frequent.

**** Corolla of one petal, regular, below the germen.*

PLANTAGO. Calyx quadrifid, erect, very ſhort, permanent. Corolla monopetalous,

quadrifid, reflex. Stamina very long. Capſule bilocular, opening tranſverſely. Seeds many. Floreſcence a ſpike, terminal.

1. Major. *Great Plantain*, or *Waybread*. Stalk naked, eight or ten inches long, tough, cylindrical. Spike long, cylindrical, imbricated. Leaves oval, ſmooth, with ſeven longitudinal ribs. June, July. A. Common.

2. Media. *Hoary Plantain*. Stalk naked, cylindrical. Spike cylindrical.. Leaves ovato-lanceolate, downy. July, Auguſt. P. Common.

3. Lanceolata. *Ribwort*, or *Ribwort-plantain*. Stalk angular, naked. Spike ſomewhat oval, naked. Leaves launce-ſhaped, with five ribs. June, Auguſt. P. In meadows, &c. frequent.

4. Maritima. *Sea Plantain*. Stalk naked, cylindrical, eight or ten inches high. Spike cylindrical. Leaves narrow, ſemi-cylindrical, intire, woolly at the baſe. June, July. P. On the ſea-coaſt.

5. Coronopus. *Buck's-horn Plantain*. Stalk naked, round, five or ſix inches long, with a ſlender ſpike. Leaves narrow, pinnated, dentated, lying on the ground in the form of a ſtar. July, Aug. A. On barren ground.

6. Loeflingi. *Narrow-leaved Plantain*. Stalk naked. Spike oval, hairy. Leaves linear, a little indented. Floral leaves navicular, membranous. July, Auguſt. P. On the coaſt.

CENTUN-

CENTUNCULUS. Calyx quadrifid, ſpreading, permanent; ſegments ſharp-pointed, longer than the corolla. Corolla monopetalous, regular, quadrifid, ſpreading below the germen; tube inflated. Capſule globoſe, unilocular, opening tranſverſely. Seeds many, ſmall.

1. Minimus. *Baſtard Pimpernel.* Stems, three or four; four or five inches long, procumbent. Leaves roundiſh, alternate. Flowers in the alæ of the leaves, white, minute. On moiſt ſandy ground, near the paper-mill on Hounſlow-heath, &c. June. A.

**** *Corolla of four petals, regular, above the germen.*

CORNUS. Calyx double: involucrum of four leaves, coloured, deciduous: perianthium minute, of one leaf, with four teeth, above the germen. Corolla acute, plane, leſs than the involucrum. Stamina longer than the corolla. Fruit, *drupa*, containing an oblong umbilicated nut, in which are two cells with a kernel in each.

1. Sanguinea. *Female Cornel, Dogberry, Gattertree,* or *Prickwood.* A ſhrub about five feet high. Trunk firm, red-brown. Branches ſtraight. Leaves conjugate, oval, pointed, with the edges intire. Flowers ſmall, white, in naked cluſters. Fruit oblong, ſize of a pea, black, very bitter. June. In hedges frequent.

2. Suecica. *Dwarf Honey-ſuckle.* An herb. Stem erect, ſix inches high; two branches on the top, with a white flower between, ſucceeded by a red fruit, like a mulberry. Leaves ſeſſile, oppoſite, ſmooth, intire,

oval, pointed with five longitudinal ribs. June. P. On our northern hills. *Herbacea of Hudſon.*

EUONYMUS. Calyx with four ſegments ſpreading. Corolla regular, of four petals. Capſule quadrangular, quadrilocular, quadrivalve, coloured. Seed covered by an exterior coat. *Claſs Pentandria Monogynia. Hudſon.*

1. Europeus. *Spindle Tree.* A ſhrub ſix or eight feet high. Branches, by ridges in the bark, appear ſquare. Leaves conjugate, elliptical, pointed, obtuſely ſerrated. Flowers greeniſh white, in bunches on conjugate pedicles. Fruit angular, purpliſh. May, June. In woods and hedges.

***** *Corolla* 0.

ALCHEMILLA. Calyx, of one leaf, tubular, permanent, with eight ſegments, alternately equal, plane. Stamina ſmall, in the rim of the calyx. Seed one, elliptical, compreſſed.

1. Vulgaris. *Ladies Mantle.* Stems drooping, round, thick, a foot or more in length. Leaves roundiſh with eight or ten points, folded like a fan, pale green, hairy, on long foot-ſtalks. Flowers, in tufts, yellowiſh green. June, Auguſt. P. In meadows, &c. frequent. *Cer.* 949.

2. Alpina. *Cinquefoil Ladies Mantle.* Stems about five inches long, drooping. Leaves, on long foot-ſtalks, five fingered, ſerrated, pale green above, ſilver white beneath. Flowers

Flowers greeniſh. July. P. On the northern hills. *Ger.* 988. 5.

II. DIGYNIA.

Piſtilla 2.

GENTIANA. Calyx and Corolla with four ſegments. Stigmata oval, without ſtyles. Capſule oblong, unilocular, bivalve. Seeds numerous, ſmall. Receptacles two, longitudinal.

1. Campeſtris. *Vernal Dwarf Gentian.* Stem erect, about two or three inches high, not branched, terminated by a ſingle blue flower. Radical leaves launce-ſhaped, ſpread upon the ground; on the ſtem not more than one or two pair. Corolla cup-faſhioned, woolly within. May, June. A. In mountainous paſtures.

2. Filiformis. *Marſh Centaury.* Stem forked, ſlender. Leaves narrow, pointed. Flowers yellow, on long pedicles, funnel-ſhaped, not bearded within. July. A. In marſhy ground. Vide *Pentandria Digynia.*

APHANES. Calyx, of one leaf, tubular, permanent, with four ſegments alternately regular. Corolla o. Stamina ſmall, on the rim of the calyx. Seeds two, oval, compreſſed.

1. Arvenſis. *Parſley piert.* Sometimes with but one piſtil. Stems three or four inches long, procumbent, covered with leaves,

which are deeply indented. Flowers ſmall, greeniſh white, in cluſters among the leaves, along the branches. May. A. In corn-fields, &c. frequent.

BUFONIA. Calyx, of four leaves, erect, permanent. Corolla of four petals, oval, notched, erect, equal, ſhorter than the calyx. Stamina not invariably four; ſometimes two, very rarely three. Capſule oval, unilocular, bivalve. Seeds two.

1. Tenuifolia. *Baſtard Chickweed.* Stalk round, ſlender, erect, jointed, about eight inches high. Branches alternate. Leaves two at each joint, narrow, pointed. Flowers in the alæ of the leaves, ſmall, white. May. P. On the coaſt near Boſton in Lincolnſhire. On Hounſlow-heath.

CUSCUTA. Calyx of one leaf, quadrifid. Corolla monopetalous, quadrifid. Capſule bilocular, opening tranſverſely. Seeds two. *Pentandria digynia. Hudſon.*

1. Europæa. *Dodder.* Stem naked, reddiſh, twiſting round any other plant, whence, having no root of its own, it receives nouriſhment. Flowers in cluſters on the ſtalk, white, ſeſſile. July. A. In corn-fields, &c. *Huds. Ger.* 577. *Eng. Bot. tab.* 55.

2. Epithymum. *Leſs Dodder.* Flowers ſeſſile, quinquifid, ſurrounded by leaves. Corn-fields and heaths frequent. June, Aug. A. *Huds. Park.* 10. 1.

III. TETRA-

III. TETRAGYNIA.

Piſtilla 4.

ILEX. Calyx, of one leaf, ſmall, with four teeth, permanent. Corolla monopetalous, with four roundiſh, concave, ſegments. Style 0. Stigmata four. Fruit a berry, with four ſeeds. *Polygamia Dioecia. Hudſon.*

1. Aquifolium. *Holly-tree.* Leaves oval, prickly. Flowers ſmall, whitiſh. Berries red when ripe. In hedges. June. *Ger.* 1338.

POTAMOGETON. Calyx 0. Corolla of four petals, obtuſe, concave, erect, deciduous. Stamina very ſhort. Styles 0; ſtigmata obtuſe. Seeds four, roundiſh, pointed, angulated.

1. Natans. *Broad leaved Pondweed.* Leaves ſingle, oblong, oval, on long foot-ſtalks, ſwimming, brown-green. Stem long, round, jointed. Flowers ſmall, yellowiſh, on ſpikes two inches long. Aug. P. In rivers and ponds.

2. Perfoliatum. *Perfoliated Pond-weed.* Leaves alternate, heart-ſhaped, ſurrounding the ſtem, gloſſy and ribbed longitudinally. Stalk two or three feet long. Spike ſhort, on a thick pedicle. Flowers ſmall, yellowiſh. June, July. P. In rivers and ponds. *Eng. Bot. tab.* 168.

3. Lucens. *Long-leaved Pond-weed.* Leaves launce-ſhaped, pellucid, gloſſy, ending

in a petiolus. June. P. In rivers and ponds.

4. Criſpum. *Great Water Caltrops.* Leaves alternate, launce-ſhaped, waved, ſerrated. Stalk very long, jointed, branched, flat. Flowers white or reddiſh, in bunches, on foot-ſtalks. May, June. P. In rivers, ponds, ditches, frequent.

5. Serratum. *Serrated Caltrops.* Leaves launce-ſhaped, oppoſite, waved a little, ſerrated, gloſſy. Stem round. Flowers green-yellow, on foot-ſtalks. June. P. In ſlow rivers.

6. Compreſſum. *Small branched Pond-weed.* Leaves long, narrow, ribbed, obtuſe. Stalk long, compreſſed, branched. Flowers ſmall, greeniſh, on ſhort ſpikes. In rivers. June, July. P.

7. Gramineum. *Graſs leaved Pond-weed.* Leaves launce-ſhaped, alternate, ſeſſile. Stalk crowded with branches and leaves. A. In ditches.

8. Pectinatum. *Fennel-leaved Pond-weed.* Leaves very narrow, convex on both ſides, parallel, and near each other, two inches long. Branches numerous, long, naked, bearing remote bunches of flowers, June. P. In rivers. Serpentine-river, Hyde-Park.

9. Marinum. *Sea Pond-weed.* Leaves linear, alternate, diſtinct, the baſe ſheathing the ſtem. Auguſt. P. In ditches on the coaſt.

10. Puſillum. *Small Graſs leaved Pond-weed.* Leaves linear, oppoſite, alternate, diſtinct,

tinct, ſpreading at the baſe. Stalk round. June, Auguſt. P. In ponds and ditches.

11. Denſum. *Leſs Pond-weed.* Leaves oval, pointed, oppoſite, cloſe. Stems forked. Spikes quadrifloral. Flower-ſtalks riſe from the diviſion of the ſtem. June. P. In lakes and rivers.

12. Setaceum. *Setaceous Pond-weed.* Leaves oppoſite, launce-ſhaped, pointed. July, Auguſt. P. In turfy bogs in Lancaſhire.

RUPPIA. Calyx 0. Corolla 0. Seeds four or five on ſlender foot-ſtalks. Antheræ ſeſſile. Styles 0.

1. Maritima. *Sea graſs.* Leaves long, narrow, pointed, alternate. Stalk ſingle, about eight inches high. Auguſt. A. In ſalt-water ditches. *Eng. Bot. tab.* 136.

SAGINA. Calyx of four leaves, oval, concave, ſpreading, permanent. Corolla of four petals, regular, obtuſe, ſhorter than the calyx. Capſule quadrilocular, quadrivalve. Seeds many.

1. Procumbens. *Pearlwort Chickweed, Break-ſtone,* or *Moſs-like Pink.* Stem and branches ſmall, ſpreading on the ground like moſs. Leaves ſmall, narrow. Flowers ſmall, green-white. June. A. On walls, and barren ſandy ground.

2. Apetala. *Downy Pearl-wort.* Stem more erect, downy. Flowers alternate; petals very minute. Root A. Brown-green. On walls. A variety of the former.

3. Erecta.

3. Erecta. *Leaſt Stichwort.* Stem erect, bearing generally a ſingle white flower on the top. Leaves oppoſite, gloſſy, ſeſſile, oval, pointed. April, May. A. In paſtures frequent.

LINUM. Vide *Pentandria Pentagynia.*

1. Radiola. *Leaſt Rupturewort,* or *All-ſeed.* Stalks numerous, forked, two or three inches long, ſpreading in a tuft on the ground. Leaves oppoſite, ſeſſile. Flowers minute, white. Auguſt. A. In waſte ground.

CLASS V.

PENTANDRIA.

Stamina 5.

I. MONOGYNIA.

Piſtillum 1.

* *Flowers regular, of one petal, below the germen, with four naked ſeeds, and rough leaves.*

MYOSOTIS. Corolla tubular, the rim expanded, with five ſegments, notched; tube cloſed by five ſmall valves. Stamina in the neck of the tube, very ſhort.

1. Scorpioides. *Mouſe-ear Scorpion-graſs.* Stem, round, hairy, terminated by a long looſe curled ſpike of blue flowers. Leaves hairy, ſoft, oblong, obtuſe, alternate, ſeſſile, callous at the ends. April—Auguſt, P. Common, in moiſt and dry ſituations. *Ger.* 337. 3.

LITHOSPERMUM. Corolla funnel-ſhaped, about the length of the calyx, with five ſlight ſegments, obtuſe, erect; tube cylindrical and open at the top. Stamina very ſhort. Seeds naked.

1. Officinale. *Common Gromwell.* Stem about two feet high, rough, hard, branched. Leaves launce-

launce-ſhaped; alternate, ſeſſile. Flowers ſmall, white, ranged along the branches among the leaves. Seeds ſmooth. May, June. P. In barren ground. *Ger.* 609. 2. *Eng. Bot. tab.* 134.

2. Arvenſe. *Baſtard Alkanet.* Stem about one foot high, thick, rough, branched at the top. Leaves launce-ſhaped, alternate. Flowers white, on ſhort foot-ſtalks among the leaves. Root reddiſh. Seeds rough. May, June. A. In corn-fields frequent. *Ger.* 610. 4. *Eng. Bot. tab.* 123.

3. Purpuro-cœruleum. *Creeping Gromwell.* Stems rough, creeping. Leaves launce-ſhaped, alternate. Corolla much longer than the calyx, purple. Seeds ſmooth. The flower-bearing ſtems are erect, and the flowers terminal. June. P. On hills. *Ger.* 609. 1.

ANCHUSA. Corolla funnel-ſhaped, with five ſlight ſegments; tube, the length of the calyx, cloſed by five valves. Stamina very ſhort. Seeds oblong, notched at the baſe.

1. Sempervirens. *Ever-green Alkanet*, or *Bugloſs.* Stem round, thick, hairy, branched, two or three feet high. Leaves oval, pointed, rough. Flowers numerous, blue, in round bunches, on foot-ſtalks with two leaves. May, June. P. Among rubbiſh, &c. *Ger.* 797. 3. *Eng. Bot. tab.* 45.

CYNOGLOSSUM. Corolla funnel-ſhaped, length of the calyx; tube ſhort, and cloſed by five valves; rim with five ſlight

ſlight ſegments. Stamina very ſhort. Style permanent. Seeds four, fixed to the ſtyle.

1. Officinale. *Hound's Tongue.* Stem erect, branched, thick, about two feet high. Leaves ſeſſile, tongue-ſhaped, pointed, downy, ribbed. Flowers purpliſh, on ſhort foot-ſtalks in naked ſpikes. Stamina ſhorter than the corolla. June. P. Among rubbiſh, road-ſides, &c. *Ger.* 804. 1.

PULMONARIA. Calyx tubular, pentangular. Corolla funnel-ſhaped; rim quinquifid; ſegments obtuſe, ſomewhat erect; tube pervious, and ſomewhat globular at the end.

1. Officinalis. *Broad-leaved Lungwort,* or *Bugloſs Cowſlip.* Calyx the length of the tube of the corolla. Stem angular, hairy, about a foot high. Radical leaves on foot-ſtalks, broad, oval, hairy; the reſt long, ſeſſile. Flowers white and purple, or blue, in round cluſters. May. P. *Ger.* 808. 1.

2. Anguſtifolia. *Narrow-leaved Lungwort.* Radical leaves lanceolate. *Ger.* 808. 2. *With.*

3. Maritima. *Sea Bugloſs.* Calyx half the length of the tube of the corolla. Stem branched, procumbent, about two feet long. Leaves oval, on foot-ſtalks. Flowers, in the alæ of the leaves, purple. July. P. On barren rocks on the coaſt. *Lightf.* vii. *p.* 134.

SYMPHYTUM. Calyx pentangular. Corolla rummer-ſhaped but long, with five

five ſegments in the rim, reflexed; tube very ſhort, with five connivent rays in the opening, alternate, with the ſtamina.

1. Officinale. *Comfrey.* Stem rough, round, green, branched, about two feet high. Radical leaves very large and rough; thoſe on the ſtalk decurrent, alternate. Flowers in looſe ſpikes, yellowiſh white, or purple. On the banks of rivers. P. July.

BORAGO. Corolla the length of the calyx, with five ſegments horizontally expanded; tube ſhort, the opening crowned by five obtuſe, notched radii. Seeds roundiſh, wrinkled.

1. Officinalis. *Borage.* Stem thick, hairy, round, branched. Leaves oval, broad, alternate. Calyces ſpreading. Flowers numerous, blue, ſingle, on longiſh weak foot-ſtalks. in looſe naked ſpikes on the tops of the branches. June, Aug. P. Among rubbiſh, high-roads, &c. *Ger.* 797. 2. S. Brit. *Eng. Bot. tab.* 36.

ASPERUGO. Calyx, whilſt immature, tubular and quinquedentate; when ripe, compreſſed, large, bivalve. Corolla funnel-ſhaped, ſmall; tube cloſed by five prominent valves.

1. Procumbens. *German Mad wort,* or *ſmall Wild Borage.* Stem angular, procumbent, branched, rough. Leaves on foot-ſtalks, obtuſe, oval. Flowers ſingle, purple. April, May, A. In roads, &c.

LYCOPSIS.

LYCOPSIS. Corolla funnel-ſhaped; the tube curved, and covered by five valves. Calyx becomes large and inflated.

1. Arvenſis. *Small Wild Bugloſs.* Stem very rough and harſh, branched. Leaves alternate, oval, harſh, waved, and irregularly cut on the edges. Flowers ſingle, blue. Calyx hairy, divided to the baſe, upright while the plant flowers, afterwards declining. June—Sept. A. Corn-fields, roads, &c. *Ger.* 799. 3.

ECHIUM. Segments of the calyx long and pointed. Corolla campanulate, with a very ſhort tube; the two upper ſegments longeſt, the leaſt ſegment acute and reflex; tube open, and wide at the top. Seeds obliquely pointed.

1. Italicum. *Wall Viper's Bugloſs.* Stem erect, firm, about two feet high, branched, hairy. Leaves launce-ſhaped, ſeſſile, numerous. Flowers in rough ſpikes; corollæ not quite regular, white, and ſcarce exceeding the calyx; ſtamina very long. July. P. On ſandy ſoil.

2. Vulgare. *Viper's Bugloſs.* Stem erect, ſingle, about eighteen inches high, ſpotted with red, covered with bulbous hairs, branched. Leaves numerous, alternate, launce-ſhaped, covered with hairs like thoſe on the ſtem. Flowers firſt red, then blue, ſeſſile, on unilateral curved ſpikes. June, July. P. Corn-fields, &c. *Eng. Bot. tab.* 181.

** *Corolla regular, of one petal below the germen. Seeds in a capſule.*

PRIMULA. Involucrum minute, of many leaves. Perianthium of one leaf, tubular, erect, with five ſharp teeth, pentangular. Tube of the corolla cylindrical, pervious; ſegments five, obtuſe, notched. Capſule cylindrical, unilocular, opening with ten teeth at the top. Seeds many.

1. Vulgaris. *Primroſe.* Stalk naked, ſupporting a ſingle pale-yellow flower. Leaves wrinkled, indented. April, May. P. *Ger.* 781. 5. *Eng. Bot. tab.* 4.

2. Veris. *Cowſlips.* Stalk naked ſupporting ſeveral yellow ſweet-ſmelling flowers, concave at their edges. Leaves wrinkled, indented. April, May. P. In meadows. *Ger.* 780. 1. *Eng. Bot. tab.* 5.

3. Elatior. *Great Cowſlip, or Oxlip.* Larger than the preceding, paler, without ſmell, border of the bloſſom flat. April, May. P. In high barren paſtures.

4. Farinoſa. *Bird's Eye.* Leaves ſmooth, notched, white underneath. Flowers like cowſlips, but generally more numerous, and red, May. P. In the northern counties. *Ger.* 783. 1. *Eng. Bot. tab.* 6.

MENYANTHES. Corolla funnel-ſhaped, hairy, with five deep inciſions; ſegments a little reflex; tube ſhort, and wideſt at the top. Stigma bifid. Capſule unilocular.

1. Nym-

1. Nymphoides. *Fringed Water Lily.* Stem creeping, and ſtriking root in the mud. Leaves large, heart-ſhaped, ſingle. Flowers large, yellow, on long foot-ſtalks, and fringed. June, July. P. In rivers, &c. S. Brit.

2. Trifoliata. *Buck-bean*, or *Marſh Trefoil.* Stem erect, about a foot high. Radical leaves oval, three on each foot-ſtalk. Flowers terminal, white, in cluſters. June, July. P. Grows in fens. *Ger.* 1194.

HOTTONIA. Calyx with five deep inciſions, the ſegments narrow, and a little erect. Corolla cup-faſhioned, the tube inflated, ſegments five, obliquely cut and notched in the rim. Stamina ſhort, on the top of the tube, and oppoſite the ſegments. Capſule globoſe, pointed, unilocular, on the calyx. Seeds many.

1. Paluſtris. *Water Violet.* Stalk long, creeping, and then erect. Leaves expanded on the water, pinnated, the pinnæ long, linear. Flowers white, on long foot-ſtalks, diſpoſed in whirls, gradually leſs. July, Auguſt. P. In ditches, &c. frequent. S. Brit.

LYSIMACHIA. Calyx deeply cut, ſegments erect, acute. Corolla without tube, expanded; the ſegments long, oval. Capſule globular, unilocular, with ten valves. Seeds many, angular.

1. Vulgaris. *Yellow Willow Herb*, or *Looſeſtrife.* Stem four or five feet high, branched, ſtriated, hairy. Leaves pale, broad, launce-ſhaped, three or four at each joint. Flowers yellow, ſeveral on each foot-

foot-ſtalk, in bunches, terminating the ſtem and branches. June, July. P. On the banks of rivers, &c. *Ger.* 474. 1.

2. Thyrſiflora. *Tufted Willow Herb.* Stem erect, not branched, ſtriated, about a foot or more high. Leaves two at each joint, pale and narrower than the laſt. Flowers yellow, on long foot-ſtalks, lateral, from the root of the leaves, in roundiſh, compact cluſters, or tufts. June. P. On the banks of rivers, &c. but rare. S. Brit. *Ger.* 475. 3.

3. Nemorum. *Yellow Pimpernel of the Woods.* Flowers ſingle, yellow, on lateral foot-ſtalks, from the alæ of the leaves. Stem procumbent, round, red. Leaves oval, pointed, on ſhort foot-ſtalks. May, June. P. In moiſt woods, &c. *Ger.* 618. 4.

4. Nummularia. *Money-wort.* Flowers from the alæ of the leaves, ſingle, yellow; inciſions of the petal very deep. Stem creeping, quadrangular. Leaves, conjugate, in ſhort pedicles, roundiſh. May, June. P. In moiſt meadows, &c.

5. Tenella. *Purple Money-wort.* Leaves ovate, ſharpiſh at the point. Flowers purple on foot-ſtalks longer than the leaves. Stem creeping. July, Auguſt. P. On bogs in high ſituations.

ANAGALLIS. Corolla regular, expanded, without tube. Capſule globoſe, unilocular, opening tranſverſely. Seeds ſeveral, angular. Receptacle globoſe, large.

1. Arvenſis.

1. Arvenſis. *Male* or *Female Pimpernel.* Stem procumbent, angular. Leaves ſeſſile, oval, pointed, in pairs. Flowers red, or blue, ſingle, on conjugate foot ſtalks, from the alæ of the leaves. May—Auguſt. A. In corn-fields. The female or blue pimpernel is a larger plant, and, I think, a diſtinct ſpecies. *Curt. pl.* 12.

AZALEA. Corolla bell-ſhaped. Stamina inſerted in the receptacle. Capſule 5—locular. Seeds many.

1. Procumbens. *Thyme-leaved Azalea.* Branches diffuſe, and trailing. P. June, July. On the tops of mountains in Scotland. *Lightf.*

CONVOLVULUS. Calyx ſmall, irregular. Corolla bell-ſhaped, plaited, large, expanded, with five or ten notches in the rim. Stigmata two. Capſule bilocular, with two ſeeds in each.

1. Arvenſis. *Small,* or *Gravel Bind-weed.* Stems numerous, weak, twiſting, generally ſpreading on the ground. Leaves arrow-ſhaped, with three acute angles. Flowers reddiſh white, on foot-ſtalks, ſingle. June, July. P. Fields, high-roads, &c. common. *Curt.* ii. 20.

2. Sepium. *Great Bind-weed.* Stems twiſting, eight or ten feet long. Leaves heart-ſhaped, the two poſterior angles being truncated. Flowers white, ſingle, on long triangular foot-ſtalks. P. July, Aug. In hedges. *Curt. pl.* 13.

3. Soldanella. *Sea Bind-weed.* Stem proſtrate. Leaves reniform. Flowers ſingle, red. July. P. On the coaſt. *Ger.* 838. 1.

POLEMONIUM. Calyx with deep inciſions. Corolla bell-ſhaped, but ſhallow, with five ſhort, broad ſegments; the tube cloſed by five valves. Stamina inſerted in the valves; antheræ incumbent. Stigmata trifid. Capſule ovato-conic, trivalve, trilocular. Seeds many.

1. Cœruleum. *Greek Valerian,* or *Jacob's Ladder.* Stem firm, erect, about two feet high, branched. Leaves pinnated; pinnæ eleven pair or more, with an odd one at the end. Calyx longer than the tube of the corolla. Flowers blue, in denſe ſpikes, terminal. *Ger.* 1076. 5. S. Brit. *Eng. Bot. tab.* 14.

DATURA. Calyx tubular, pentangular, deciduous. Corolla funnel-ſhaped, almoſt intire, five-folded, pentangular. Capſule ſpinous, bilocular, quadrivalve. Seeds numerous.

1. Stramonium. *Thorn-apple.* Stem forked, ſpreading wide. Leaves, on long foot-ſtalks, ſmooth, oval, large, indented. Flowers ſingle, large, white, in the diviſions of the branches. Fruit erect. July. A. Among rubbiſh, &c. about London, frequent. *Ger.* 348. S. Brit.

ATROPA. Corolla campanulate, inflated; the opening at the top narrow, ſpreading. Stamina curved, diverging. Berry globoſe, bilocular. Seeds many.

1. Belladonna. *Deadly Night-ſhade,* or *Dwale.* Stem erect, forked, branched, three or four

feet high. Leaves oval, intire, large, hairy, ſoft, pointed. Flowers dead purple, numerous, on pedicles from the alæ of the leaves, ſingle. Fruit, when ripe, a large black gloſſy berry. In woods, hedges, &c. June, July. P. *Ger.* 340.

SOLANUM. Corolla wheel-ſhaped; tube very ſhort; limb large, plaited, ſemiquinquifid. Stamina minute; antheræ contingent, burſting at two pores in the apex. Berry bilocular.

1. Dulcamara. *Woody Night-ſhade.* Stem woody, ſlender, weak, climbing, ſix feet or more in length, not prickly. Upper leaves, on long foot-ſtalks, ſhaped like a halbert. Flowers, in looſe bunches, purple, with two greeniſh ſpots at the baſe of each ſegment of the corolla; ſtamina yellow, forming a cone. Berry red. June, July. P. In hedges, frequent. *Curt. pl.* 14.

2. Nigrum. *Common Night-ſhade.* Stem herbaceous, branched, about a foot high. Leaves ſingle, on long foot-ſtalks, alternate, dentato-angulated. Flowers white, on branched pedicles, drooping. Berries black. June, July. A. Among rubbiſh, &c.

CHIRONIA. Calyx and corolla with five ſegments, oval, equal. Stamina broad, ſhort, from the top of the tube. Piſtil declining. Antheræ at laſt ſpiral. Pericarpium bilocular. Seeds ſmall, numerous.

1. Centaurium. *Leſs Centory.* Stem ſingle, erect, forked, from ſix to twelve inches high. Leaves oppoſite, narrow, ſeſſile, with three ribs. Flowers pale red, funnel-ſhaped, terminal, in cluſters on the upper branches, which form a kind of umbel. June. A. In paſtures. *Curt.* iv. 42.

VINCA. Corolla cup-faſhioned, twiſted; tube cylindrical below; limb horizontal, with five ſegments, obliquely truncated. Stamina very ſhort, and bent. Style on a double germen. Stigmata two, one above the other. Pericarpium two folliculi, erect, cylindrical, univalve.

1. Minor. *Periwinckle.* Stem woody, creeping, ſlender, crooked. Leaves long, oval, intire, pointed, oppoſite, gloſſy. Flowers ſingle, on long curved pedicles from the alæ of the leaves, large, blue. May. P. In woods, hedges, &c. near Hampſtead.

2. Major. *Great Periwinckle.* Stem woody, erect. Leaves broader and ſharper pointed. Pedicles of the flowers ſtraight, and calyx as long as the tube; otherwiſe like the former. May. P. In woods and hedges frequent.

**** Corolla regular, of one petal above the germen.*

CAMPANULA. Corolla bell-ſhaped, cloſed at the bottom by five valves, bearing the ſtamina. Stigma trifid. Capſule below the flower, and opening by lateral pores. Seeds numerous, ſmall.

1 Rotundifolia.

1. Rotundifolia. *Round-leaved Bell-flower.* Stem ſlender, ſcarce a foot high. Radical leaves roundiſh, on long pedicles; thoſe on the ſtem long and narrow. Flowers large, terminal, on long foot-ſtalks, blue. Aug. P. On waſte ground and barren paſtures.

2. Patula. *Field Bell flower.* Stem branched. Leaves ſtiff, launce-ſhaped, radical ones ovate. Panicles diffuſe. A livid denticle on each ſide of the ſegments of the calyx. July, Aug. P. In woods and hedges. *Eng. Bot. tab.* 42.

3. Rapunculus. *Rampions.* Stem two or three feet high, angular, hairy; with many branches. Radical leaves tongue-ſhaped, obtuſe, hairy; the reſt narrow pointed, ſerrated. Flowers terminal, on ſhort foot-ſtalks, blue. Aug. P. In fields, &c. but rare. Near Croydon in Surry. *Ger.* 453.

4. Latifolia. *Giant Throat-wort.* Stem ſingle, round. Leaves broad, rough, launce-ſhaped. Flowers ſingle, on foot-ſtalks. Fruit drooping. July, Aug. P. In hedges, &c. In the mountainous parts of the north. *Ger.* 448. 3.

5. Trachelium. *Great Throat-wort,* or *Canterbury-bells.* Stem purpliſh, ſquare, hairy, about two feet high, bending. Leaves, like thoſe of the common nettle, rough, on foot-ſtalks. Flowers blue, generally three on each branch of a trifid pedicle, from the alæ of the leaves. Calyx fringed. July, Aug. P. Woods and hedges. *Ger.* 448. 1. *Eng. Bot. tab.* 12.

6. Glomerata. *Little Throat-wort.* Stem erect, angular, ſimple or but little branched, and

ſomewhat rough. Leaves rough; thoſe at the bottom on foot-ſtalks. Flowers ſeſſile, conglomerate, blue, reddiſh, or white, reſting upon ſhort broad leaves. July. P. On hills, eſpecially chalk. *Ger.* 449. 4. *Eng. Bot. tab.* 90.

7. Hybrida. *Leſs Venus Looking-glaſs*, or *Podded Corn-violet.* Stem erect, divided near the root, angular. Leaves ſeſſile, oblong, waved, crenated. Flowers purple, expanded, from the alæ of the leaves, on pedicles; calyx aggregate, and longer than the corolla. Capſule a pod, priſmatic. Corolla almoſt pentapetalous. June, July. A. In corn-fields. *Ger.* 439. 2.

8. Hederacea. *Ivy-leaved Bell flower.* Stem four or five inches long, tender, procumbent, reddiſh. Leaves heart-ſhaped, with five lobes, ſmooth, on long foot-ſtalks. Flowers blue, on long ſlender pedicles. May—Aug. P. In moiſt ſhady places. *Eng Bot. tab.* 73.

SAMOLUS. Corolla cup-ſhaped. Stamina covered by the ſcales of the corolla. Capſule unilocular, beneath.

1. Valerandi. *Round-leaved Water Pimpernel.* Leaves oblong, egg-ſhaped, very entire. Flowers white. June. P. In moiſt ditches and marſhy places.

PHYTEUMA. Corolla ſtellated, expanded, monopetalous, with five long, narrow, acute, recurved ſegments. Style the length of the corolla, curved. Stigma trifid. Capſule roundiſh, trilocular. Seeds many, ſmall.

1. Orbicularis.

1. Orbicularis. *Horned Rampions.* Stem erect, ſimple, about a foot high, terminated by a round ſpike of purple flowers. Radical leaves, heart-ſhaped, on long foot-ſtalks, the reſt long, ſeſſile, ſerrated. July. P. On downs. *Ger.* 445. 5. *Eng. Bot. tab.* 142.

* *Corolla irregular of one petal.*

LONICERA. Calyx ſmall. Corolla above the germen, tubular, quinquifid; ſegments revolute; tube gibbous. Fruit a berry with ſeveral ſeeds, bilocular.

1. Periclymenum. *Honeyſuckle,* or *Woodbine.* A ſhrub; branches long, climbing. Leaves diſtinct, oval, ſmooth, obtuſe. Flowers ſeſſile, on oval imbricated heads, terminal. May, July. In hedges. *Curt. pl.* 15.

2. Xyloſteum. *Upright Alpine Honeyſuckle.* A low ſhrub, erect, buſhy at the top. Leaves oval, pointed, hairy, intire. Flowers white, two on each pedicle. Fruit two oblong red berries, which as they ripen run into one oval ſtriated berry. July. In the fiſſures of rocks. Under the Roman wall, on the weſt ſide of Shewing-Sheels, Northumb. *Wallis,* p. 149.

VERBASCUM. Corolla below the germen, with a very ſhort tube, and five obtuſe expanded ſegments. Stamina inclining, and downy at the baſe. Capſule roundiſh, bilocular, bivalve.

1. Thapſus. *Great White Mullein.* Stem ſingle, ſimple, erect, covered with leaves, about ſix feet high. Leaves large, broad, white,

white, woolly on both ſides, ſeſſile, decurrent. Flowers terminal, in a long ſpike, ſeſſile, yellow. July. B. In barren ground. *Ger.* 773. 1.

2. Lychnitis. *Hoary Mullein.* Stem two or three feet high, branched. Leaves oblong, pointed, wrinkled, meally beneath, and notched round the edges. Flowers yellow, or white, on terminal and lateral ſpikes. July. B. Barren ground. *Eng. Bot. tab.* 58.

3. Nigrum. *Black Mullein.* Stem purpliſh, angular, about five feet high. Leaves oblong, ſerrated, dark green, &c. wrinkled on the upper ſide, on foot-ſtalks. Flowers yellow, with purpliſh antheræ; ſpike looſe, terminal. July. P. High roads, &c. S. Brit. *Ger.* 775. 2. *Eng. Bot. tab.* 59.

4. Blattaria. *Yellow Moth Mullein.* Stem ſimple. Leaves oblong, ſerrato-dentated, ſmooth, gloſſy, embracing the ſtem. Flowers, in thin ſpikes, on ſeparate pedicles, yellow, large. June. A. On gravelly ſoils. *Ger.* 778. 7.

5. Virgatum. *Rodlike Mullein.* Downy. Radical leaves ſub-lyrate. Stem leaves ſeſſile. Stem branched. Peduncles collected, ſeſſile. *With.*

HYOSCYAMUS, Calyx tubular, bellying at the bottom, quinquifid, permanent. Corolla below the germen, ſemiquinquifid, ſegments obtuſe, one broader than the reſt. Stamina inclining. Capſule bilocular, with a line on each ſide, and a cover on the top. Seeds numerous.

1. Niger.

1. Niger. *Henbane.* Stem firm, about two feet high, branched. Leaves very large, indented, ſurrounding the ſtem. Flowers ſeſſile, large, brown and purple. June. A. High-roads, &c. *Ger.* 353. 1.

* *Pentapetalous, regular, above the germen.*

RIBES. Calyx of one leaf. Corolla minute, erect, on the edge of the calyx. Stamina inſerted in the calyx. Style bifid. Berry with many ſeeds.

1. Rubrum. *Currants.* A ſhrub about four feet high. Leaves ſerrated. Flowers green-white, in pendulous bunches. May. In woods, &c. in the north; alſo in gardens. *Ger.* 1593. 1.

2. Alpinum. *Mountain Currants.* A ſmall ſhrub. Flowers in erect bunches, with floral leaves longer than the flowers. May. In hedges in Yorkſhire, &c.

3. Nigrum. *Black Currants.* Flowers oblong; bunches hairy. Leaves have a ſtrong ſmell. May. In moiſt woods and banks of rivers; alſo in gardens. *Ger.* 1593.

4. Uva-criſpa. *Gooſeberry.* Branches prickly. Berries or ſmooth or hairy. *Ger.* 1324. On old walls.

HEDERA. Style ſimple. Berry with five ſeeds, encompaſſed by the calyx.

1. Helix. *Ivy.* A ſlender climbing ſhrub. Leaves lobed, gloſſy. Flowers in bunches. October. Againſt Walls. *Curt. pl.* 16.

* *Corolla*

* *Corolla* 0.

ILLECEBRUM. Calyx, of five leaves, cartilaginous, coloured, below the germen. Stigma ſimple. Capſule quinquevalve. Seed one.

1. Verticillatum. *Verticillate Knot-graſs*, or *creeping Milkwort*. Stalks ſeveral, jointed, ſpreading on the ground. Leaves ſhort, oval, in pairs. Flowers ſmall, white, in whirls. July. P. In wet paſtures, &c. in Cornwall, &c. *Ger.* 563.

GLAUX. Calyx of one leaf. Capſule unilocular, quinquevalve. Seeds five.

1. Maritima. *Sea Milkwort*, or *Black-Saltwort*. Stalks numerous, procumbent, jointed. Leaves ſeſſile, in pairs. Flowers purple, in the alæ of the leaves. July. P. On the ſea-ſhore. *Ger.* 562. *Eng. Bot. tab.* 13.

THESIUM. Calyx of one leaf, above the germen. Stamina inſerted in the calyx. Seed 1, in the bottom of the calyx.

1. Linophyllum. *Baſtard Toad-flax*. Stalks ſlender, ſtriated, branched. Leaves long, narrow. Flowers white, ſmall, on pedicles from the alæ of the upper leaves. June, July. P. On chalk hills. S. Brit.

RHAMNUS. Calyx tubular, quinquifid, coloured on the inſide, with a minute ſcale at the baſe of each ſegment. Fruit a berry.

1. Frangula.

1. Frangula. *Black-berry bearing Alder.* A tall ſhrub, without ſpines. Inner bark yellow. Leaves roundiſh, pointed, intire. Flowers hermaphrodite. April, May. In woods and hedges.

2. Catharticus. *Buck-thorn.* Dioecia Tetrandria.

II. DIGYNIA.

Piſtilla 2.

POLYGONUM. Vide *Octandria Trigynia.*

1. Amphibium. *Perennial Arſmart.* Stem ſlender, branched. Leaves long, narrow, with parallel nerves, ſlightly ſerrated. Flowers reddiſh, in denſe ſpikes; ſtamina longer than the corolla. June, July. P. In fens and ditches frequent.

* *Corolla* 0.

HERNIARIA. Calyx with five ſegments, ſpreading, coloured on the inſide. Beſide the five proper minute ſtamina, there are five ſterile filaments. Style very ſhort. Stigmata two. Capſule ſmall. Seed one.

1. Glabra. *Smooth Rupture-wort.* Stems numerous, ſlender, branched, ſmooth, four or five inches long, ſpreading on the ground. Leaves in pairs, very ſmall and pointed. Flowers minute, yellowiſh, in cluſters along the ſtalks. July. A. Cornwall. *Ger.* 569.

2. Hirſuta.

2. Hirſuta. *Rough Rupture-wort.* Leaves hairy. June, July. A. In meadows, but rare. I think, a variety only.

3. Lenticulata. *Sea Rupture-wort.* Stems numerous, ſlender, branched, ſpreading on the ground. Leaves roundiſh, ſmall. Flowers ſmall, greeniſh white, in bunches, terminal. Auguſt. P. On the ſea-coaſt.

CHENOPODIUM. Calyx of five leaves; pentangular. Style ſhort, divided. Stigmata obtuſe. Pericarpium o. Seed one, lenticular.

* *Leaves angular.*

1. Bonus Henricus. *Engliſh Mercury*, or *Allgood*. Stalks near two feet high. Leaves triangular, arrow-ſhaped, intire, oily, on long foot-ſtalks. Flowers greeniſh white, in ſpikes, terminal. Auguſt. P. Among rubbiſh, frequent. *Curt.* iii. 31.

2. Urbicum. *Upright Blite.* Stem erect. Leaves, on long foot-ſtalks, ſomewhat triangular, oblong, obtuſe, ſlightly indented. Flowers greeniſh, in long, naked, ſlender, denſe ſpikes, or bunches, branched, erect, cloſe to the ſtalk, from the alæ of the leaves. Aug. September. A. Among rubbiſh, &c.

3. Rubrum. *Sharp-leaved Gooſe-foot.* Stem erect. Leaves ſomewhat triangular, thick, gloſſy, ſinuato dentated towards the point. Flowers in reddiſh bunches, lateral, compoſite, erect, leafy. Aug. A. On dunghills, rubbiſh, &c. *Ger.* 328. 1.

4. Murale.

4. Murale. *Gooſe-foot*, or *Sowban*. Stem erect, much branched. Leaves triangular, irregularly indented. Flowers in reddiſh bunches, lateral, naked, from the alæ of the leaves. Aug. A. In gardens, and among rubbiſh, &c. *Ger.* 328. 1.

5. Serotinum. *Late-flowering Blite.* Leaves triangular, wrinkled, ſmooth, uniform, with a deep ſinus on each ſide, ſomewhat reſembling thoſe of the fig-tree. Flowers in bunches, terminal. Auguſt, Sept. A. On dunghills, rubbiſh, &c. frequent. *Curt.* ii. 18.

6. Album. *Common Orach.* Stem erect, about three feet high, branched. Leaves on long foot-ſtalks, rhomboideo-triangular, irregularly indented towards the point, and meally on the under ſide. Flowers in terminal bunches compoſed of alternate, ſeſſile, thick ſpikes. Seed black, with a peculiar integument, diſtinct from the calyx. Aug. A. *Curt.* ii. 16.

7. Viride. *Green Blite.* Stem erect, green, purpliſh at the angles. Leaves rhomboidal, ſinnuated, dentated; thoſe on the branches launce-ſhaped, intire. Flowers in long, ſlender, naked, divided ſpikes. A. July. In cultivated ground frequent.

8. Hybridum. *Maple-leaved Blite.* Leaves ſomewhat heart-ſhaped, with a few large angulated indentures, and a long point. Flowers in long, naked, branched bunches, lateral and terminal. Auguſt. A. Among rubbiſh, dunghills, &c. frequent. *Curt.* iv. 42.

9. Glaucum.

9. Glaucum. *Oak-leaved Blite.* Leaves ovato-oblong, cut round the edges in a waved line, downy beneath. Flowers in ſimple, naked, roundiſh bunches. Stem procumbent. Auguſt. A. On waſte ground frequent.

** *Leaves intire.*

10. Vulvaria. *Fœtid Orach.* Stem branched, diffuſe, procumbent. Leaves not large, rhomboidal, obtuſe, meally. Flowers in ſmall roundiſh bunches from the alæ of the leaves. Aug. A. In waſte ground frequent. *Ger.* 327. *Olidum Curtis.*

11. Polyſpernum. *Round-leaved Blite,* or *Alſeed.* Stem decumbent. Leaves oval. Flowers very numerous, ſmall, in forked bunches from the alæ of the leaves. July, Auguſt. A. Frequent. *Curt.* ii. 20.

12. Martimum. *Sea Blite,* or *White Glaſswort.* Leaves narrow, taper, plane above, convex beneath. A ſmall whitiſh plant. Seeds gloſſy. Aug. A. On the ſea-coaſt frequent. *Ger.* 535. 3.

BETA. Calyx of five obtuſe concave leaves. Stamina the length of the calyx. Styles very ſhort, erect. Capſule in the bottom of the calyx, unilocular. Seed one, reniform.

1. Maritima. *Sea Beet.* Flowers in pairs. Stem decumbent. Leaves large, triangular, vertical, or oblique, on long foot-ſtalks. Flowers terminal and lateral. Auguſt. B. On the coaſt frequent. This was ſuppoſed to be Dr. Letſom's celebrated *Mangel*

Mangel Wurzel, which is now ſaid to be the *Cicla*. Flowers the firſt year. Flowers grow in pairs. No dent at the baſe of the leaves of the calyx.

2. Vulgaris. *Common Beet.* Stem erect. Leaves horizontal. Calyx dentated at the baſe. Flowers congeſted. Auguſt. B. In gardens, and on the ſea-coaſt.

SALSOLA. Calyx of five oval leaves. Stamina very ſhort, in the leaves of the calyx. Stigmata curved. Capſule unilocular. Seed one, large, ſpiral.

1. Kali. *Prickly Glaſswort.* Stem herbaceous, decumbent, rough. Leaves thick, narrow, taper, ending in a ſpine. Flowers greeniſh, in the alæ of the leaves; calyces with a leafy margin. July, Auguſt. A. On the coaſt frequent. *Ger.* 1117. 3.

2. Fruticoſa. *Shrubby Glaſswort.* Erect. Leaves filiform, bluntiſh. Aug. On the ſea-coaſt. *Ger.* 523. 4.

ULMUS. Calyx like a top, wrinkled, with five ſegments, coloured on the inſide. Stamina double the length of the calyx; ſtyles ſhorter, reflexed. Fruit a dry compreſſed membranaceous berry.

1. Campeſtris. *Common Elm.* Leaves rough, oval, pointed, doubly ſerrated, unequal at the baſe. Bark of the trunk cracked and wrinkled. Fruit membranous. April. In hedges common.

2. Montana. *Wych Elm.* Leaves rough, oval, three inches by two, doubly ſerrated, unequal at the baſe. Bark of the younger branches ſmooth. Flowers when thirty feet high.

Ger. 1481. 3. Mar. Generally thought a a variety of the laſt.

* *Corolla of one petal, regular, below the germen.*

SWERTIA. Calyx with five ſegments. Corolla with five ſegments, ſpreading, without tube. Two nectariferous pores at the baſe of each ſegment. Two ſtigmata without ſtyles. Capſules three, unilocular, bivalve. Seeds numerous, ſmall.

1. Perennis. *Marſh Gentian.* Radical leaves oval. Auguſt. P. In Wales. *Ger.* 433. 5.

GENTIANA. Calyx and corolla with five ſegments. Stigmata, two, oval, without ſtyles. Capſule oblong, cylindrical, pointed, unilocular, bivalve. Seeds numerous, ſmall. Receptacula two, longitudinal.

1. Pneumonanthe. *Calathian Violet.* Stem erect, with few branches, near two feet high. Leaves narrow, oppoſite. Flowers blue, campanulate, erect, terminal, few, oppoſite, on ſhort pedicles. Auguſt. P. In moiſt meadows. *Eng. Bot. tab.* 20.

2. Amarella. *Autumnal Gentian*, or *Fellwort.* Stems numerous, branched, about a foot high. Leaves oppoſite, ſeſſile. Flowers cup-faſhioned, bearded within, blue, terminal. July. Aug. A. In dry paſtures.

3. Filiformis. *Leaſt Gentian.* Corolla quadrifid, without beard. Stem filiform, forked. July, Aug. A. In Marſhes.

4. Campeſtris. *Field Gentian.* Corolla quadrifid, bearded. Flowers blue. Stem procumbent. Auguſt. A. In mountainous paſtures in Wales and Cornwall.

* *Flowers*

* *Flowers with five Petals, regular, in umbels, with general and partial involucra.*

ERYNGIUM. Flowers in roundiſh heads. Receptacle conic, with paleæ between the ſeſſile floſcules. Involucrum of the receptacle of many leaves, erect, acute, exceeding the floſcules. Proper perianthium of five leaves, erect, acute. Petals reflex. Stamina and ſtyles longer than the corolla.

1. Maritimum. *Sea Holly*, or *Eryngo*. Root very long. Radical leaves roundiſh, folded, deeply indented, ſpinous, on long foot-ſtalks; thoſe on the ſtem and branches ſeſſile. Stem much branched. Flower-heads on pedicles. Flowers ſmall, whitiſh. July, Auguſt. P. On the coaſt. *Ger.* 1162. 1.

2. Campeſtre. *Common Eryngo*. Root ſhorter than the laſt, and leaves narrower, pinnated, tripartite, ſurrounding the ſtalk. Both plants are of a bluiſh green. July, Auguſt. In paſtures near the ſea. *Ger.* 1162. 2. Brit. *Eng. Bot. tab.* 57.

HYDROCOTYLE. Umbel ſimple. Involucrum of four leaves. Petals oval, acute, intire, ſpreading. Seeds two, compreſſed, in the ſhape of a half moon.

1. Vulgaris. *Marſh Pennywort*, or *White-rot*. Stem creeping, jointed. Leaves ſingle, on long foot-ſtalks, fixed on the center, round, with eight nerves and eight ſcallops. Umbels of five flowers, which are ſmall, and reddiſh white. May. P. In wet paſtures. *Ger.* 529. 3.

SANICULA. General umbel of about four radii; the partial of many, cloſed, ſo as to form a kind of knob. General involucrum but half round. Floſcules of the diſk abortive. Stamina twice the length of the corolla. Fruit rough. Seeds two.

1. Europæa. *Sanicle.* Stem erect, naked. Radical leaves numerous, on long foot ſtalks, trilobed, indented; the ſide lobes divided. Floſcules all ſeſſile, May, June. P. In woods and ſhady places. *Ger.* 948. *Eng. Bot. tab.* 98.

BUPLEURUM. General umbel with leſs than ten radii. Partial involucrum of five leaves, large. Floſcules all fertile. Petals very ſhort, involuted. Fruit roundiſh, compreſſed, ſtriated, diviſible. Seeds two. S. Brit.

1. Rotundifolium. *Thorough-wax.* Stem erect, about two feet high, branched. Leaves ſingle, each ſurrounding the ſtem, oval, pointed, gloſſy, bluiſh-green. Flowers yellowiſh. No general involucrum. July. A. In corn-fields. *Ger.* 536. 1. *Eng. Bot. tab.* 99.

2. Tenuiſſimum. *Leaſt Hare's Ear.* Stem about a foot high, with many branches. Leaves long, narrow, pointed, ſeſſile. Umbels ſimple, alternate. Flowers ſmall, yellowiſh. July, Aug. A. In paſtures, rare.

BUNIUM. General umbel of leſs than twenty radii; partial umbel very ſhort, but thick ſet. General involucrum of many leaves, linear, ſhort; partial involucrum

lucrum like briſtles, as long as the umbel. Fruit oval, diviſible. Seeds two.

1. Bulbocaſtanum. *Earth Nut, Pig Nut,* or *Jar Nut.* Root bulbous, brown on the outſide. Stems ſmooth, about a foot high. Radical leaves long, on foot-ſtalks, pinnated; pinnæ and pinnulæ branched, the extreme lobule launce-ſhaped. Upper leaves much finer, vaginated: all ſmooth, gloſſy. Flowers ſmall, white. May, June. P. In woods. *Ger.* 1064. 2.

2. Flexuoſum. *Leſs Pig Nut.* Stem from the baſe tapering downward zigzag. General involucrum 0. Stem-leaves very narrow. *Curt.* iv. 46. S. Brit.

PEUCEDANUM. General umbel of many long ſlender radii. Partial umbel flat. General involucrum of many leaves, linear, ſmall, reflex; partial leſs. Styles ſmall. Fruit oval, girt by a membrane. Seeds two, oblong, furrowed, girt by a membrane. S. Brit.

1. Officinale. *Hog's Fennel.* Stem erect, jointed, branched, two or three feet high. Leaves 5-partite, linear, filiform. Umbels large. Flowers ſmall, yellowiſh. June. P. In ſalt fens. *Ger.* 1054. 1.

2. Silaus. *Meadow Saxifrage.* Stem erect, branched, about two feet high. General involucrum of two leaves. Leaves decompoſite; folioles pinnatifid, ſegments oppoſite, dark green on the upper ſide. Petals yellowiſh, revolute, divided by a middle line. Seeds large, with three deep furrows. Aug. P. In moiſt meadows. *Ger.* 1048. 2.

CRITHMUM. General umbel of many radii, hemiſpherical. Partial umbels conſimilar. General involucrum of many leaves, obtuſe, reflex; partial, the length of the umbels. Fruit oval, compreſſed, diviſible. Seeds two, elliptical, ſtriated on one ſide.

1. Maritimum. *Sampire.* Stem much branched, about a foot high. Radical leaves large, with long, narrow, thick ſegments. Flowers yellow, on large umbels. Auguſt. P. On the ſea-coaſt. *Ger.* 533. 1.

LIGUSTICUM. General and partial umbels of many radii. General involucrum membranous, of ſeven leaves, unequal; partial of three or four leaves. Petals involuted, intire. Fruit oblong, 5-furrowed. Seeds two, large, long, with membranes on one ſide.

1. Scoticum. *Scottiſh Sea Parſley.* Stem two or three feet high, erect, ſtriated, branched at the top. Leaves biternate. Flowers ſmall, white. July. B. On the ſea-coaſt, but rare.

2. Cornubienſe. *Cornwall Saxifrage.* Stem three or four feet high, branched. Leaves decompoſite, cut in at the edges; the radical ones ternate, launce-ſhaped, intire. July. P. In Cornwall.

ANGELICA. General umbel of many radii, roundiſh. Partial umbel when flowering, perfectly round. General involucrum of three or five leaves, ſmall. Partial umbel ſmall, of eight leaves. Fruit

Fruit roundiſh, angular, ſolid, diviſible. Seeds two.

1. Sylveſtris. *Wild Angelica.* Stem erect, branched-five or ſix feet high. Leaves large, on vaginal foot-ſtalks, compoſed of pinnated foliolæ, ſerrated, ſomewhat oval, umbel large. Flowers ſmall, greeniſh white. June, July. P. In woods, hedges, &c. *Ger.* 999. 2.

SIUM. Partial umbel ſpreading. General involucrum of five—ſeven leaves, broad, reflex; partial, about the ſame number, but narrow. Fruit, roundiſh, ſtriated, ſmall, diviſible. Seeds two. Petals heart-ſhaped.

1. Latifolium. *Great Water Parſnep.* Stem erect, branched, five or ſix ſeet high. Leaves pinnated, broad, ſerrated. General involucrum o. Umbels terminal. Flowers ſmall, white. July. P. Rivers, ſens, &c. *Ger.* 256. 1.

2. Nodiflorum. *Creeping Water Parſnep.* Stem weak, creeping. Radical leaves pinnated, ſimple; thoſe on the ſtalk ſemitrilobed, and ſharp-ſerrated. Umbels ſome on ſhort pedicles from the alæ of the leaves, and others on longer ones and terminal. July, Aug. P. Rivers and ditches.

3. Anguſtifolium. *Narrow-leaved Water Parſnep.* Leaves pinnated; pinnæ lobed, ſecond pair diſtant from the firſt. Umbels axillary, pedunculate, oppoſite the leaves, and terminal. June, July. P. In ditches and rivulets. *Ger.* 256. 2. *With.* S. Brit. *Eng. Bot. tab.* 139.

SISON. General umbel of leſs than ſix, and partial leſs than ten radii, unequal. Involucra each of four leaves, unequal. Fruit oval, ſtriated, diviſible. Seeds two.

1. Amomum. *Baſtard Stone Parſley.* Stem tall, ſlender, weak, branched. Leaves pinnated, ſerrated. Umbels erect, terminal. Seeds warm, aromatic. Aug. Sept. P. In woods and hedges. *Ger.* 1016. 1. S. Brit.

2. Segetum. *Corn Parſley*, or *Honewort.* Stems numerous, ſlender, ſtriated, branched, leaning. Leaves pinnated; pinnæ oval, pointed, ſerrated, ſix or eight pair, and one at the end. Umbels ſmall, drooping. Flowers minute, white. July. A. Corn-fields, and hedges, &c. *Ger.* 1018.

3. Inundatum. *Leaſt Water Parſnep.* Stem about eight or ten inches high, branched, creeping. Leaves below the water capillary; above, pinnated. Umbels bifid. May, June. A. Ditches, ponds, &c. frequent.

4. Verticillatum. *Verticillate Siſon.* Small leaves in whirls, capillary. Stem 2 feet, with few leaves. Common umbel of 8 or 10 rays; partial 18 or 20. Both involucra of 5 or 6, oval, acute, foliola. Flowers all hermaphrodite, petals white. Auguſt. P. In meadows. *Lightf. Append.*

** *Involucrum* 0.

PASTINACA. General and partial umbels of many radii. Petals curled inwards, launce-ſhaped, intire. Fruit elliptical,

liptical, compreſſed. Seeds two, elliptical, with a margin. S. Brit.

1. Sylveſtris. *Parſnep.* Stalk branched, jointed. Leaves pinnated, ſimple, ſerrated. Umbels large. Flowers yellow. July. B. In the borders of common fields. *Ger.* 1025. 1.

SMYRNIUM. General umbel unequal, daily increaſing; partial umbel erect. Petals carinated. Fruit oblong, ſtriated. Seeds two, triangular.

1. Oluſatrum. *Alexanders.* Stem firm, jointed, ſtriated, branched, three or four feet high. Radical leaves triternate; thoſe above, ternate only; both ſerrated. Umbels very large. Flowers greeniſh white. May, June. B. In ditches, and about rocks near the ſea. *Ger.* 1019.

ANETHUM. General and partial umbels of many radii. Petals curled inwards, minute, intire. Styles obſolete. Fruit ſomewhat oval, compreſſed, ſtriated. Seeds 2, without a membranous margin.

1. Fœniculum. *Fennel.* Stem round, thick, firm. Leaves divided into a multitude of long narrow ſegments. Flowers yellow. Aug. B. On chalk cliffs, frequent. S. Brit. *Ger.* 1032.

CARUM. General umbel long, of ten radii, often unequal. Partial umbels crowded. Petals ſometimes a little irregular, heart-ſhaped, ridged, and cut in the

the margin. Fruit ovato-oblong, ſtriated. Seeds two, convex on one ſide, plane on the other, ſtriated.

1. Carvi. *Carraways.* Root conic. Stem branched, about a foot high. Leaves long, bipinnated; firſt pinnulæ decuſſate on the rib. Umbels terminal. Flowers white. May, June. B. Meadows, &c. frequent. *Ger.* 1034.

PIMPENELLA. General umbel of many radii; partial, of yet more. Petals of the exterior flowers irregular. Styles very ſhort. Fruit ovato-oblong. Seeds two, convex, ſtriated.

1. Saxifraga. *Burnet Saxifrage.* Stem ſlender, much branched, about two feet high. Leaves pinnated, ſerrated; thoſe from the root roundiſh; upper leaves in five long narrow ſegments. Aug. P. In dry paſtures. *Ger.* 1044. 2.

2. Major. *Great Burnet Saxifrage.* All the leaves lobed; the odd one 3—lobed. Leaves pinnated. Stem furrowed, three feet high. Flowers white. *Ger.* 1044. 1. Aug. Sept. A. In woods and hedges.

* *Dioica.* Vide *Dioecia Pentandria.*

APIUM. Univerſal umbel of few radii; partial, of many. Petals roundiſh, inflexed. Seeds two, oval, ſtriated on one ſide.

1. Graveolens. *Smallage.* When cultivated in gardens, *Celery.* Stem erect, hollow, angular, branched. Radical leaves, on long pedicles, pinnated; pinnæ divided into

three lobes, and ſerrated. Upper leaves wedge-ſhaped. Aug. B. In fens and ditches.

ÆGOPODIUM. General umbel of many raddii, convex; partial, of many radii, plane. Petals heart-ſhaped, the exterior ones not regular. Fruit ovato-oblong, ſtriated. Seeds two, large.

1. Podagraria. *Herb-Gerard, Gout-weed,* or *Aſh-weed.* Stem angular, branched, about three feet high. Leaves on triangular pedicles. Radical leaves biternate, with broad ſeſſile foliolæ; thoſe above ternate, with the foliolæ on pedicles. Umbels few, large. Flowers white. In gardens frequent. May. P. *Ger.* 1001. 2.

* *Petals five, irregular. Umbels with general and partial involucra.*

ECHINOPHORA. General umbel with intermediate ſhorter radii. Partial umbel with ſeſſile floſcules, ſeveral abortive. Partial involucrum of one leaf, with ſix ſegments, acute, unequal. Seed one, immerſed in the involucellum.

1. Spinoſa. *Prickly Sampire,* or *Sea Parſnep.* Stem erect, branched. Leaves pinnated; pinnæ thick, with a ſingle furrow, and tapering to a rigid ſpine. Root like that of the common parſnep, but more branched. July. P. On the ſea-coaſt. *Ger.* 533. 2.

TORDYLIUM. General and partial umbels of many unequal radii; thoſe of the latter very ſhort. Involucra long, ſimple. Floſcules

Floſcules all hermaphrodite. Corollæ radiate. Fruit roundiſh, notched in the margin. Seeds two.

1. Officinale. *Small Heart-wort.* Partial involucra as long as the flowers. Little leaves oval, jagged. Florets purpliſh. Seeds large, flat, their edges notched. June. A. In fields.

CAUCALIS. General umbel with few, and thoſe unequal radii. Partial umbel with more radii, of which the five exterior are largeſt. Corollæ radiate, thoſe of the diſk male. Fruit ſubovate, ſtriated, ſpinous.

1. Daucoides. *Small Hen's-foot.* Stem ſtraggling, angular, ſcored, hairy. Umbels quinquifid or trifid. Partial umbels ſeſſile, generally three, with three ſeeds and three leaves. General involucrum 0. Florets not radiate, reddiſh. Prickles of the ſeeds ſmooth. May, June. A. In fields, in a barren ſoil. *Park.* 920. 6. *With.*

2. Latifolia. *Broad-leaved Hen's-foot.* General umbel trifid; partial, with five ſeeds. Leaves pinnated, ſerrated. Stem angular, ſtriated, and like the whole plant rough, with flat prickles. Flower purpliſh. June, July. A. In corn fields.

3. Anthriſcus. *Hedge Parſley.* Umbel denſe. Small leaves, oval, pinnatifid. Branches erect. In hedges. *Ger.* 1022. 5. Auguſt. P. *Lightf.*

4. Arvenſis. *Corn Parſley.* Common involucrum of one leaf. Umbel denſe. Branches diffuſe. Seeds and ſmall leaves ſub-oval. July, Aug. A. *Hudſ.* Leaves pinnatifid. Flowers white. Infeſta-Curt.

5. Nodoſa.

5. Nodoſa. *Knotted Hen's-foot.* Umbels lateral, ſeſſile, ſimple at the knots of the ſtem. Rays unequal. *Hudſ. Ger.* 1022. 6. May. July. A. In corn-fields.

DAUCUS. General and partial umbel of many radii, concave. General involucrum of many leaves, as long as the umbel, with linear, pinnated leaves. Partial involucrum more ſimple. Flowers all hermaphrodite. Fruit prickly.

1. Carota. *Wild Carrot,* or *Bird's-neſt.* Stem erect, ſolid, branched, three or four feet high. Root ſmaller and harder than the garden carrot. Leaves hairy, and doubly divided into fine ſegments. Seeds prickly. June—Auguſt. B. In fields. *Ger.* 1028.

CONIUM. Umbels of many radii, ſpreading. Involucra of many leaves, very ſhort, unequal. Fruit roundiſh, with five ſtriæ, notched.

1. Maculatum, *Hemlock.* Stem erect, jointed, ſpotted, branched, five or ſix feet high. Leaves bipinnated; folioles divided into about ſeven ſegments, the laſt obtuſe. Seeds ſtriated. June, July. A. In hedges, frequent. *Curt. pl.* 17.

ATHAMANTA. General umbel of many radii; partial fewer. Involucra of many leaves, linear. Fruit ovato-oblong, ſtriated.

1. Libanotis. *Mountain Stone-parſley.* Root acrid, conic, aromatic. Stem ſometimes very ſhort, and ſometimes near two feet high. Leaves

Leaves large, bipinnated, reſembling thoſe of parſley. Umbellulæ very numerous. Umbels hemiſpherical. Seeds hairy. Aug. Sept. P. In dry paſtures. *Eng. Bot. tab.* 138.

2. Oreoſelinum. *Stradling Spignel.* Small leaves divaricated, oval, pointed. Pinnæ cut, not ſerrated. *Huds.* July, Aug. P. Dry meadows. *Cer.* 1015.

3. Meum. *Meu*, or *Bawd-money.* Leaves ſmall, capillary. Seeds ſtriated, ſmooth. Flowers white. May. P. In mountainous paſtures in the north.

HERACLEUM. General umbel large, of many radii. Involucra deciduous. Exterior petals much larger, and notched. Fruit elliptical, compreſſed, ſtriated. Seeds two, with four ſtriæ, foliaceous.

1. Sphondylium. *Cow Parſnep.* Stem hollow, ſtriated, branched, about five feet high. Leaves hairy, large, pinnatifid, quinquifid, with lobes irregularly notched. Flowers hairy, white or reddiſh, all hermaphrodite. July. B. Hedges, paſtures, &c. frequent. *Ger.* 1009.

2. Anguſtifolium. *Jagged Cow Parſnep.* Differs from the laſt, in the leaves being pinnated croſſwiſe, the foliolæ much narrower, and the corolla greeniſh, and more regular. *Syſt. Nat. Append.* 57. A variety of the laſt.

OENATTHE. General umbel of few radii; thoſe of the partial umbel numerous, very ſhort or none. Involucra of many leaves,

leaves, ſimple. Floſcules ſeſſile; thoſe of the diſk ſterile. Fruit crowned by the calyx.

1. Fiſtuloſa. *Water Dropwort.* Stem creeping under water; above water erect, and almoſt naked. Radical leaves bipinnated; thoſe on the ſtem pinnated, linear, fiſtulous. Partial umbels denſe, generally three together. July. P. In fens and ditches frequent. *Ger.* 1060.

2. Crocata. *Hemlock Dropwort.* Stem branched, ſtriated about four feet high. Leaves multifid, large, obtuſe. Radii of the general umbel angular. General involucrum large. Flowers white. Jun. P. On the banks of rivers. *Ger.* 1059. 4.

3. Pimpinelloides. *Pimpernel Dropwort.* Stem about ſix inches high, angular. Radical leaves bipinnated, reſembling thoſe of parſley; thoſe above ſimple, linear, channelled, long. Umbel unequal. Flowers white. In fens and ditches. June. P. S. Brit.

** *General Involucrum* 0.

PHELLANDRIUM. Umbel of many radii. Partial involucrum of ſeven leaves, acute, and as long as the umbel. Flowers of the diſk leſs. Fruit ſmooth, oval, crowned by the calyx and piſtillum.

1. Aquaticum. *Water Hemlock.* Stem very thick, hollow, ſtriated, ſix feet high, branched. Lower leaves decompoſite; upper bipinnated, their ramifications divaricated, and ſegments narrow. Umbel not very large.

Seeds

Seeds oval, compreſſed ſlightly, aromatic. Jun. B. In rivers, ditches, &c. *Ger.* 1063.

CICUTA. Umbels roundiſh, of many equal radii. Partial involucrum of many leaves, ſhort, narrow. Fruit oval, furrowed. Petals nearly equal.

1. Viroſa. *Long-leaved Water Hemlock.* Stem three or four feet high, ſtriated, branched. Leaves large, with ſeven pair of pinnæ, long, ſlender, variouſly divided, indented, on leafy pedicles. July. P. In ſhallow pools of water. Poiſonous. *Ger.* 256. 4.

ÆTHUSA. General umbel ſpreading; inner radii gradually leſs. Partial umbels ſmall, ſpreading. Partial involucrum, on the outſide only, of three or five long, linear, pendulous leaves. Fruit ſtriated. Petals bifid.

1. Cynapium. *Fool's Parſley.* Stem furrowed, branched, two or three feet high. Leaves pinnated, ſmooth, gloſſy, large, ſubdivided into narrow ſegments, ſomewhat reſembling thoſe of hemlock. Aug. Sept. A. In corn-fields, and a frequent weed in gardens. *Curt. pl.* 18.

CORIANDRUM. General umbel of few radii; partial of many. Partial involucrum, on one ſide only, of three linear leaves. Corolla radiate; petals inflexed, notched. Fruit ſpherical.

1. Sativum. *Coriander.* Stem two or three feet high, branched. Leaves divided into many narrow

narrow ſegments; the lower leaves broader, pinnated. Root white. The whole plant when bruiſed, ſmells very diſagreeably. Jun. A. Dunghills, high-roads, &c. *Ger.* 1012. 1. 2. S. Brit. *Eng. Bot. tab.* 67.

SCANDIX. General umbel long, of very few radii. Partial involucrum of five leaves, as long as the umbel. Petals intire. Fruit long, narrow, taper. Floſcules of the diſk generally male.

1. Pecten Veneris. *Shepherd's Needle*, or *Venus-comb.* Stem about a foot high, branched. Leaves divided into many narrow ſegments. Fruit above an inch long. Radii of the general umbel only two. Leaves of the involucra bifid. May, June. A. Corn-fields, frequent.

2. Anthriſcus. *Hemlock Wild Chervil.* Stem about two feet high, branched, ſmooth. Leaves pinnated, reſembling thoſe of hemlock, but with ſhorter and broader pinnæ. Seeds oval, rough. Petals equal. May, June. A. In corn-fields and high-roads frequent. *Curt.* i. 19.

3. Odorata. *Great ſweet Chervil*, or *Myrrh.* Leaves triply pinnated, hairy, ſcented. Stalks channelled and fiſtular. Flowers white. Seeds furrowed, angular. May. P. In hedges. *Ger.* 1039. 3.

4. Cerefolium. *Chervil.* Seeds gloſſy, long-oval. Stem ſmooth. Florets ſeſſile. *Ger.* 1038. May. A. Found near Worceſter. *With.*

CHEROPHYLLUM. General umbel, ſpreading; partial umbel of nearly the

ſame number of radii. Partial involucrum of about five leaves, broad, concave, reflex. Petals roundiſh, intire. Fruit oblong, ſmooth.

1. Sylveſtre. *Wild Cicely*, or *Cow-weed*. Stem ſmooth, thick, hollow, branched, ſtriated, ſwelling at the joints. Leaves very large, bipinnated; pinnulæ broad, divided into four or five ſegments, hairy. Flowers all hermaphrodite. Exterior leaf of the partial involucrum much larger than the reſt. April, May, June. A. In hedges. *Curt.* iv. 25.

2 Temulentum. *Wild Chervil*. Stem ſpotted, branched, rough; joints ſwollen. Leaves hairy, large, bipinnated; pinnulæ narrow, and regular like fern. Umbels drooping. Floſcules of the diſk male. Seeds broad, yellow, ſtriated. Interior petal cordated. July, Aug. A. In hedges frequent. *Ger.* 1038. 2.

IMPERATORIA: General umbel flat, expanded; *partial* unequal. Common involucrum 0; *partial* of one or two leaves. Florets of five petals, bent in, notched. Fruit roundiſh, compreſſed, gibbous in the middle, bordered.

1. Oſtruthium. *Maſterwort*. Leaves with about five pinnæ, the end one in 3 lobes. On waſte ground in Scotland, frequent. June. P. *Lightf. Ger.* 1001. 1.

III. TRI-

III. TRIGYNIA.

Piſtilla 3.

* *Corolla monopetalous, regular, above the germen.*

VIBURNUM. Calyx quinquedentate, ſmall, permanent. Corolla campanulate, with five ſegments, obtuſe, reflex. Styles 0, but a turbinated glandule inſtead. Fruit a berry, with a ſingle oſſeous ſeed.

1. Lantana. *Way-faring*, or *pliant meally Tree*. A ſmall tree, with whitiſh pliant twigs. Leaves in pairs, oval, pointed, ſerrated, venous, meally on the under ſide. Flowers white, in umbels, terminal. Fruit black. May. In hedges. *Ger.* 1490.

2. Opulus. *Water Elder*, or *Guelder-roſe*. A weak ſhrub, about ſix feet high. Leaves, on glandular foot-ſtalks, divided into three or five lobes, ſerrated, reſembling vine-leaves. Flowers large, white, in umbels. Berry red. May, June. In woods and hedges. *Ger.* 1424. 1.

SAMBUCUS. Calyx of one leaf, ſmall, in five ſegments, permanent. Corolla with five ſegments, obtuſe, reflex. Styles 0, but a tumid glandule. A berry with three ſeeds.

1. Nigra. *Common Elder*. A ſhrub, or ſmall tree, from ſix to fifteen or twenty feet high. Branches full of pith. Leaves pinnated, ſerrated. Flowers white, in large umbels, or rather cymes, quinquepartite. Fruit black. April. In woods and hedges.

2. Ebulus. *Dwarf Elder, Wallwort,* or *Dantwort.* An herb, about three feet high. Leaves and flowers like the laſt, but the leaves are ſomewhat longer. Cymes tripartite. June, July. P. Hedges. *Curt.* iii. 18.

** *Corolla pentapetalous, regular, below the germen.*

STAPHYLEA, Calyx of five ſegments, concave, coloured, equal with the corolla, which conſiſts of five leaves, the petals erect, acute. Capſules three, inflated, joined together by a longitudinal ſuture. Seeds two, globoſe, with a cicatrix.

1. Pinnata. *Bladder Nut Tree.* A tall ſhrub, or tree; ſhoots pithy. Leaves pinnated; pinnæ generally five, oblong, pointed, and notched round the edges. Flowers white, in whirls, on long pendulous pedicles. June. In hedges about Pontefract, and in Kent. *Ger.* 1437. S. Brit.

ALSINE. Calyx of five concave pointed leaves. Petals bifid. Capſule unilocular, trivalve. Seeds ſeveral, roundiſh.

1. Media. *Common Chickweed.* Stem weak, branched. Leaves elliptical, pointed, in pairs. Flowers ſmall, white. Stamina uncertain as to number, three, ſeven, five, or ten. April to October. A. frequent. *Curt.* i. 20.

IV. TETRAGYNIA.

Piſtilla 4.

PARNASSIA. Calyx in five ſegments, acute, ſpreading, permanent. Petals five, regular, notched, ſtriated. Nectaria five, fringed,

fringed, apex globoſe. Styles 0. Stigmata four. Capſule unilocular, quadrivalve.

1. Paluſtris. *Graſs of Parnaſſus.* Stem ſquare, about ſix inches high. Radical leaves on foot-ſtalks. Flower long, ſingle, large, white, terminal. Aug. P. In wet meadows. *Ger.* 840. 1. *Eng. Bot. tab.* 82.

V. PENTAGYNIA.

Piſtilla 5.

* *Petals five, regular, below the germen.*

STATICE. Calyx of one leaf, funnel-ſhaped, folded, intire. Seed one.

1. Armeria. *Thrift*, or *Sea Gilly-flower.* Stem ſimple, naked, about ſix inches high. Radical leaves like graſs, in a large tuft. Flowers terminal, pale red, in a round head, not very large. July, Aug. P. In meadows near the ſea. *Ger.* 602. 1.

2. Limonium. *Sea Lavender.* Stem naked, branched, about a foot high. Radical leaves long, thick, pointed, on foot-ſtalks. Flowers blue, in long ſpikes or panicles on the tops of the branches. July, Aug. P. On the ſea-coaſt. *Ger.* 411. 1. S. Brit. *Eng. Bot. tab.* 102.

3. Reticulata. *Matted Sea Lavender.* Stem proſtrate, terminated by a panicle of flowers. Branches bent backwards, interwoven. Leaves wedge-ſhaped. July, Auguſt. P. On the ſea-coaſt. S. Brit.

LINUM. Calyx ſmall, of five leaves, erect, permanent. Petals five, obtuſe, large. Capſule globoſe, decemlocular, quinque-valve. Seeds ſingle.

1. Uſitaſſimum. *Flax.* Stem erect, about three feet high, branched, hollow. Leaves narrow, pointed, alternate, intire. Flowers blue, crenated; calyx angular; capſule pointed. Seeds brown, gloſſy. June. A. In corn-fields. *Ger.* 556. *Curt.* v. 22.

2. Perenne. *Perennial Blue Flax.* Stem about a foot high. Leaves numerous, narrow, pointed, alternate, intire. Capſules and ſegments of the calyx obtuſe. Flowers blue, in thick tufts, terminal. June, July. P. In barren paſtures. S. Brit. *Eng. Bot. tab.* 40.

3. Anguſtifolium. *Narrow-leaved Wild flax.* Stalks numerous, erect, woody, about a foot high, branched. Leaves irregular, narrow, pointed, rough. Flowers large, terminal, on pedicles, ſingle, blue or reddiſh, with purple lines; calyx ſharp-pointed, fringed. June, July. P. In fields near the ſea.

4. Catharticum. *Purging Flax.* Stem about eight inches high, generally bent, forked towards the top. Leaves oval, pointed, oppoſite, ſmall, ſeſſile. Flowers white, ſharp-pointed, terminal, ſmall. May, June. A. In dry fields. *Curt.* iii. 19.

5. Radiola. Vide *Tetrandria Tetragynia.*

DROSERA. Calyx of one leaf, quinquifid, pointed, erect, permanent, a little leſs than the corolla. Capſule oval, unilocular, with five valves atthe apex. Seeds numerous, minute.

1. Rotun-

1. Rotundifolia. *Round-leaved Sun-dew.* Stem naked, about four inches high. Leaves concave, round, on pedicles fringed and covered with red hairs, and ſprinkled with drops of a tranſparent fluid. Flowers white, on ſpikes chiefly unilateral. July, Aug. P. On bogs, &c. *Ger.* 1556. 1.

2. Longifolia. *Long-leaved Sun-dew.* Differs from the laſt in being a ſomewhat larger plant, and in the elliptical ſhape of the leaf. July, Auguſt. P. *Ger.* 1556. 2.

3. Anglica. *Engliſh Sun-dew.* Differs from the laſt in being a larger plant, and in the capſule having four valves only. Bogs among moſs. Theſe three ſpecies are, I think, varieties only. The leaves being irritated by the feet of any inſect, curl up and ſecure it as in a trap.

SIBBALDIA. Calyx of one leaf, with ten ſegments. Petals five, which with the ſtamina are inſerted into the calyx. Styles from the ſide of the germens. Seeds five.

1. Procumbens. *Baſtard Cinquefoil.* Stem procumbent. Leaves three, on the top of a ſmall pedicle, trifid at the extremity, and ſomewhat hairy. Flowers yellow. July, Aug. P. N. Brit.

SPERGULA. Vide *Decandria Pentagynia.*

1. Pentandria. *Small Spurrey.* Leaves very narrow, in whirls at the joints. Seeds black, with a white circle. July. A. In Ireland.

VI. POLYGYNIA.

Piſtilla many.

MYOSURUS. Calyx of five leaves. Nectaria five, narrow, pointed, reſembling petals. Seeds numerous, fixed to a long receptaculum. Germens numerous. Styles o. The number of the ſtamina not to be depended on.

1. Minimus. *Mouſetail.* Stalks ſimple, about three inches high. Radical leaves numerous, like graſs. Flowers ſmall, greeniſh. Receptaculum about two inches long, cylindrical, like that of the plantain, but not ſo thick. April, May. A. In meadows, &c. *Curt.*

CLASS

CLASS VI.

HEXANDRIA.

Stamina 6.

I. MONOGYNIA.

Piſtillum 1.

GALANTHUS. Spatha oblong, forked, compreſſed. Corolla of three petals, oblong, blunt, concave, equal. Nectarium cylindrical, of three petals, parallel, notched. Stigma ſimple.

1. Nivalis. *Snow-drop. Ger.* 147. Mar. Apr. P. In hedges and woods. *Eng. Bot. tab.* 19.

FRANKENIA. Calyx of one leaf, angular, with five ſharp teeth, ſpreading, permanent. Corolla of five petals, roundiſh, ſpreading. Stigmata three. Capſule oval, unilocular, trivalve. Seeds many, oval, minute.

1. Lævis. *Smooth Sea Heath.* Stems numerous, branched, procumbent. Leaves ſmall, linear, fringed at the baſe. Flowers purple, ſingle, ſeſſile. Aug. P. On the ſea-coaſt. *Ger.* 566. 3.

2. Pulverulenta. *Broad-leaved Sea Heath.* Differs from the laſt in the leaves being oval, with a blunt apex, and meally on the under-ſide. July. A. On the ſea-coaſt. *Ger.* 566. 2.

JUNCUS. Calyx of ſix leaves. Glume bivalve. Corolla 0. Capſule unilocular, trivalve, triangular. Stigmata three, long, woolly.

* *Stalks*

* *Stalks naked.*

1. Acutus. *Hard Sea Ruſh.* Stem hard, ſharp-pointed, terminated by a panicle of roundiſh heads. July. Aug. P. On the ſea-coaſt. S. Brit.

2. Conglomeratus. *Round-headed Ruſh.* Stem rigid. Head compact and lateral. July. Aug. P. Bogs and wet paſtures. *Park.* 1191. 3.

3. Effuſus. *Common Soft Ruſh.* Flowers on pedicles. Panicle lateral, diffuſe. May—Aug. P. Fens, &c. *Ger.* 35. 1.

4. Inflexus. *Hard Ruſh.* Stem with the apex membranous and curved. Panicle diffuſe, lateral. Jun. P. In paſtures, &c. *Ger.* 35. 4.

5. Filiformis. *Leaſt ſoft Ruſh.* Stem ſhort, ſlender, drooping. Panicle diſtant from the top. On boggy mountains. P. S. Brit.

6. Squarroſus. *Moſs Ruſh*, or *Gooſe-corn.* Leaves very narrow. Heads round, terminal, naked. June. P. In waſte ground frequent. *Ger.* 21. 4.

7. Trifidus. *Trifid Ruſh.* Stalk terminated by three leaves, and flowers. *Lightf. p.* 188. June. P. Bogs on the tops of the Highland mountains in Scotland.

** *Stalks leafy.*

8. Articulatus. *Jointed-leafed Ruſh.* Leaves jointed. Heads ſeſſile. July, Aug. P. In wet ground. P *Ger.* 22. 9.

9. Bulboſus. *Bulboſe Ruſh.* Root denſe, creeping. Leaves narrow. On the upper ſide grooved, on the under convex, ſtriated. Panicle

Panicle unequal, terminal. Capſule brown, ſhining. Aug. P. In moiſt ground frequent.

10. Bufonius. *Toad Ruſh.* Stem forked. Leaves angular. Flowers ſeſſile, ſingle, with white vaginæ. July, Aug. A. In ſandy paſtures, &c.

11. Piloſus. *Hairy Wood Ruſh.* Stem about two feet high. Leaves ſomewhat broad and hairy. Panicle branched. April, May. P. In thick woods. *Ger.* 19. 1. *Curt.* v. 25.

12. Sylvaticus. *Great Hairy Wood Ruſh.* Leaves broader, more concave and more pointed than the laſt. May. P. *Curt.* v. 26.

13. Campeſtris. *Small Hairy Wood Ruſh.* Stem not ſo tall as the laſt. Leaves narrower, and ſpikes more compact. April. P. In dry paſtures, &c. *Curt.* ii. 19.

14. Biglumis. *Two-flowered Ruſh.* Flowers terminal. Leaf ſubulate. Stalk one or two inches high, cylindrical. Glume and petals dark purple. Aug. P. In paſtures.

15. Triglumis. *Three-flowered Ruſh.* Leaves flat, vaginal. Stem ſimple, leafleſs, Flowers ſeſſile, terminal. Glume and capſules chocolate. June, Aug. P. Bogs on mountains. *Lightf.* 188.

* *Monopetalous, regular.*

CONVALLARIA. Calyx 0. Corolla bell-ſhaped, ſmooth, with ſix ſegments. Berry trilocular, ſpotted. Seeds ſingle.

1. Majalis. *Lily of the Valley.* Stalk naked, ſlender, angular. Flowers white, in a long unilateral bunch, terminal, fragrant. May. P. In woods. *Curt.* v. 24.

2. Poly-

2. Polygonatum. *Sweet-ſmelling Solomon's Seal.* Stem ſingle, two edged, about a foot high. Leaves oval, alternate, their baſe ſurrounding the ſtem, numerous, large. Flowers white, on pedicles from the alæ of the leaves, pendulous, ſingle. May, June. P. In the fiſſures of rocks. S. Brit.

3. Multiflora. *Solomon's Seal.* Stem round, near two feet high, drooping. Leaves numerous, alternate, oval, pointed, ſurrounding the ſtem with their baſe. Flowers, generally two or more on each pedicle, pendulous. May, June. P. In woods. *Ger.* 903. 1.

4. Verticillata. *Narrow-leaved Solomon's Seal.* Stem angular, near two feet high. Leaves ſmooth, launce-ſhaped, in whirls occaſionally but ſometimes oppoſite. June. P. Very rare. Found in woods near Dunkeld in Perthſhire. *Eng. Bot. tab.* 128.

HYACINTHUS. Calyx 0. Corolla bell-ſhaped, with ſix ſegments, reflex. Three melliferous pores on the top of the germen. Capſule trilocular, trivalve.

1. Non Scriptus. *Engliſh Hyacinth*, or *Hare-bells.* Stem naked, bending at the top, about 10 inches high. Leaves long, narrow. Flowers long, blue, on pedicles, in looſe ſpikes, terminal. May. P. In woods and under hedges frequent. *Ger.* 111. 1.

* *Flowers without petals.*

ACORUS. Spadix ſimple, cylindrical, covered by the floſcules, without a ſpatha. Petals obtuſe. Style 0. Capſule trilocular.

1. Calamus. *Sweet Smelling Flag.* Leaves thick, narrow, two-edged, about two feet long.

Spadix

Spadix grows from a leaf thicker and rounder than the reſt. May. P. In rivers, &c. *Ger.* 62. 1.

** *Six petals regular. Calyx a ſpatha.*

NARCISSUS Corolla fixed on the outſide of the tube of the nectarium, which conſiſts of one leaf, funnel-ſhaped, intire. Capſule trilocular, trivalve.

1. Poeticus. *Pale Daffodil.* Stem compreſſed, hollow, ſtriated, ſingle, about a foot high. Leaves long, narrow. Flower generally ſingle, very pale yellow. Nectarium ſmall, yellow. April. P. In meadows, but rare. *Ger.* 124. 7.

2. Pſeudo Narciſſus. *Engliſh Daffodil.* Differs from the laſt chiefly in the nectarium being erect, and equal in length to the petals of the corolla. March, April. P. In woods and hedges. *Ger.* 133. 2. *Eng. Bot. tab.* 17.

ALLIUM. Common ſpatha roundiſh, deciduous, containing ſeveral flowers. Corolla ſexpartite. Antheræ oblong, erect. Stigma acute. Capſule ſhort, broad, trilobed, trilocular, trivalve. Seeds many. Umbel compact.

1. Ampeloprаſum. *Great round-headed Garlick.* Root lateral. Leaves narrow, flat. Umbel globoſe. Stamina alternately trifid. Flowers pale purple. July. P. *Ger.* 180. 2. S. Brit.

2. Arenarium. *Broad-leaved Mountain Garlick.* Stem bearing bulbs. Leaves ſlightly ſerrated. Stamina alternately trifid. Flowers pale purple. July. P. In the north of England. *Ger.* 187. 4.

3. Vineale. *Crow Garlick.* Leaves cylindrical, hollow. Head bulbiferous. Stamina with two long briſtles exceeding the flower. *Ger.* 179. 1. June. P. In meadows.

4. Oleraceum. *Wild Garlick.* Leaves rough, cylindrical. Umbel bulbiferous. Vagina with two horns. Stamina ſimple. Flower whitiſh green, with three dark purple ſtriæ on each petal. July. P. In high paſtures, &c. *Ger.* 188. 6. S. Brit.

5. Urſinum. *Ramſons.* Stem naked, ſemi-cylindrical. Radical leaves launce-ſhaped, on foot-ſtalks. Umbel faſtigiate. May. P. In woods and hedges frequent. *Ger.* 179. 2. *Eng. Bot. tab.* 122.

6. Schœnopraſum. *Cives.* Stalk naked, as long as the leaves, which are cylindrico-ſubulate. *Ger.* 177. 1. In meadows in the north. June. P.

7. Carinatum. *Keeled Garlick.* Stem with flat leaves, and bulbous. Stamina ſubulate. Spatha very long. *Ger.* 187. 5. June, July. P. *With.*

**** Six petals, regular. Calyx a perianthium.*

BERBERIS. Calyx of ſix leaves, ſpreading, coloured, deciduous, almoſt as long as the corolla. Two glandules at the baſe of each petal. Style 0. Berry cylindrical, obtuſe, unilocular. Seeds 2.

1. Vulgaris. *Barberry Buſh.* A ſhrub generally 6 or 8 feet high. Bark rough. At the joints of the branches three ſpines. Leaves alternate, on foot-ſtalks, elliptical, with ſharp teeth round the edges, acid. Flowers yellow in naked bunches, terminal. Ber-

ries

ries red. In woods and hedges frequent. May, June. P. *Ger.* 1325. *Eng. Bot. tab.* 49.

PEPLIS. Calyx bell-ſhaped, large, with twelve denticles alternately reflex. Petals very minute, inſerted in the calyx. Style very ſhort. Capſule bilocular. Seeds many, ſmall, angular.

1. Portulaca. *Water Purſlane.* Stems numerous, ſlender, creeping, 4 or 5 inches long, reddiſh. Leaves oppoſite, two at each joint, narrow at the baſe, with a round apex, ſmooth, intire, pale green. Flowers ſeſſile, in the alæ of the leaves, purpliſh. Sept. P. In ponds, &c. *Curt.* iv. 27.

**** *Six petals regular. Calyx* 0.

FRITILLARIA. Corolla-bell-ſhaped, with a broad bottom and nectariferous cavity near the baſe of each petal. Stamina cloſe to the ſtyle, end the length of the corolla. Capſule oblong, obtuſe, trilocular, trivalve. Seeds many, in two rows.

1. Meleagris. *Chequered Daffodil.* Root a bulb. Stem ſlender, about 6 or 8 inches high. Leaves narrow, alternate. Flower large, often ſingle, on a ſlender pedicle, drooping, chequered with purple. May, Jun. P. In meadows, &c. Middleſex. *Ger.* 149. 1. S. Brit. *Curt.* iii. 20.

ORNITHOGALUM. Petals launce-ſhaped, below the middle erect, above ſpreading, permanent, but fading. Stamina ſhort. Style ſubulate. Capſule angular, trilocular, trivalve.

1. Luteum. *Yellow Star of Bethelem.* Stalk angular, about 6 or 8 inches long, with two ſmall leaves near the top. Radical leaves two, as long as the ſtem. Flowers on pedicles, in a kind of umbel, green without, yellow within; tube priſmatical. April, May. P. In the northern counties. *Ger.* 165. 2. *Eng. Bot. tab.* 21.

2. Pyrenaicum. *Spiked Star of Bethelem.* Radical leaves carinated, convoluted. Stem about two feet high, bearing a long terminal ſpike of many flowers, greeniſh, ſtriated on the outſide, on equal pedicles. Filaments ſubulato-triangular. May. P. In meadows. *Ger.* 97. S. Brit.

3. Umbellatum. *Common Star of Bethelem.* Radical leaves numerous, carinated, convoluted, obtuſe; thoſe on the ſtem white. Flowers white, with a green rib on the outſide, in ſpikes forming a kind of umbel, the lower pedicles being longeſt. Stamina alternately ſagittated. In woods, meadows. &c. *Ger.* 165. 1. Apr. May. P. S. Brit. *Eng. Bot. tab.* 130.

SCILLA. Petals oval, ſpreading, deciduous. Stamina and Style half the length of the corolla. Capſule ſmooth, triſulcate, trilocular, trivalve. Seeds many.

1. Bifolia. *Vernal Star Hyacinth.* Stem about ſix inches high. Radical leaves generally two. Root ſolid. Flowers blue, generally four, of equal height. Apr. May. P. *Ger.* 106. 1. *Eng. Bot. tab.* 24. Scilla verna of Hudſon.

2. Autumnalis. *Leſs Autumnal Star Hyacinth.* Stem 6 or 8 inches high. Leaves numerous, long,

long, and very narrow. Flowers blue, terminal, in bunches on naked peduncles. Root ſolid. *Ger.* 110. 1. Aug. Sept. P. S. Brit. *Eng. Bot. tab.* 78.

ANTHERICUM. Petals oblong, obtuſe, ſpreading. Antheræ ſmall, incumbent. Germen obſolete. Style the length of the ſtamina. Capſule oval, ſmooth, trilocular, trivalve. Seeds numerous, angular.

1. Serotinum. *Mountain Saffron.* Stem about 4 or 5 inches high, with 3 or 4 ſmall leaves, alternate. Radical leaves long, and very narrow. Flowers terminal, ſingle, white within and pale red on the out-ſide, below the germen. May. P. On the Welch mountains. S. Brit.

2. Calyculatum. *Scottiſh Aſpholed.* Leaves enſiform. Stem ſimple, naked above. Petals long, narrow, greeniſh, divided by a middle line. Stigmata 3. Perianthium trifid. Spike terminal. Root white, fibrous. Sept. *Tofieldia. Hudſon. 2 Edit.* On mountains. *Lightf. p.* 181.

3. Oſſifragum. *Baſtard Aſphodel.* Differs from the laſt chiefly in the filaments of the piſtillum being woolly, which in that are ſmooth. July, Auguſt. P. *Ger.* 95. 2. *Narthecium Hudſon.*

ASPARAGUS. Corolla below the germen; three interior petals reflex at the apex. Style very ſhort. Berry trilocular. Seeds two, ſmooth.

1. Officinalis. *Sparagus.* Stem herbaceous, erect, branched, with one exterior and two interior ſtipulæ. Leaves like threads. Flowers

ſmall, greeniſh. July, Aug. P. In meadows near the ſea, in the weſt of England.

II. DIGYNIA.

Piſtilla 2.

RUMEX. Vide *Trigynia*.

1. Digynus. *Round-leaved Mountain Sorrel.* Stem procumbent. Leaves on foot-ſtalks, round, notched at the extremity. Calyx and corolla each of two leaves. June. P. On the Welch mountains, and in the north of England.

POLYGONUM. Vide *Octandria, Trigynia.*

1. Hydropiper. *Water Pepper*, or *Arſmart*. Stem erect, jointed, near two feet high. Leaves alternate, long, narrow. Flowers red, in long ſpikes, terminal. The whole plant acrid. July, Aug. A. Banks of rivulets, ditches, &c. *Curt.* i. 26.

2. Perſicaria. *Dead*, or *ſpotted Arſmart*. Stem generally procumbent. Leaves launce-ſhaped, generally with a large black ſpot in the middle, and downy beneath. Stipulæ fringed. Flowers in ſpikes, terminal. Aug. Sept. A. In fields and waſte ground frequent. *Curt.* i. 23.

3. Minus. *Creeping Arſmart.* Leaves lanceolate. Stipulæ fringed. Stem creeping at the baſe, 10 inches long. Leaves almoſt without veins, and not acrid. July, Auguſt. A. *Curt.* i. 28. S. Brit.

LY-

LYTHRUM. Vide *Dodecandria Monygnia.*

1. Hyſſopifolia. *Graſs-poly*, or *ſmall Hedge Hyſſop.* Stalks ſtriated, 8 inches high. Leaves narrow, alternate. Flowers pale blue, in the alæ of the leaves. In ponds, &c. but rare. Aug. Sept. A. *Ger.* 581. 2. S. Brit.

III. TRIGYNIA.

Piſtilla 3.

RUMEX. Calyx of 3 leaves, reflex. Corolla of 3 leaves, connivent. Stamina ſhort. Stigmata large. Seed 1, triangular. Valves of the flower graniferous.

1. Sanguineus. *Bloodwort.* Valves very entire. Stem 3 or 4 four feet high. Leaves large, pointed, with red veins, on long red foot-ſtalks. Flowers reddiſh, in cluſters, terminal. July. B. In the woods near Hampſtead. *Ger.* 390. S. Brit.

2. Criſpus. *Curled Dock.* Valves entire. Root yellow. Leaves launce-ſhaped, waved, acute. June, July. P. In fields, high-roads, &c. *Curt.* ii. 20.

3. Britannica. *Great Water-dock.* Valves entire. Leaves very long, launce-ſhaped. July, Aug. P. In fens and ditches frequent. *Ger.* 389. 1.

4. Maritimus. *Golden Dock.* Root red. Leaves very narrow, pointed. Flowers yellow, with indented valves. Among rubbiſh, high-roads, &c. frequent. July, Auguſt. P. *Curt.* iii. 23.

5. Acutus. *Sharp-pointed Dock.* Valves notched. Leaves oblong, very ſharp-pointed. June. P. In moiſt woods, &c. *Curt.* iii. 21.

6. Obtuſifolius. *Broad-leaved Dock,* Valves notched. Leaves broad, obtuſe, notched at the end. July, Aug. P. In wet grounds. *Curt.* iii. 22.

7. Pulcher. *Fiddle Dock.* Lower leaves ſhaped like a fiddle, that is, hollowed out at the ſides. Valve dentated. Branches procumbent. June. P. In dry ground.

TRIGLOCHIN. Calyx and corolla each of 3 leaves, obtuſe, concave, ſimilar, deciduous. Stamina very ſhort. Styles 0. Stigmata reflex, feathered. Capſule opening at the baſe. Seeds ſingle.

1. Paluſtre. *Arrow-headed Graſs.* Culm ſimple, 8 or 10 inches high. Leaves long, narrow. Flowers greeniſh, in a long ſpike, terminal. Capſule trilocular, oblong. July, Auguſt. P. In moiſt ground frequent. *Ger.* 20. 1.

2. Maritimum. *Sea Spiked Graſs.* Culm ſhort. Leaves numerous, long, narrow, ſemi-cylindrical. Spike long. Flowers purpliſh. Capſule 6-locular, oval. May—Auguſt. P. On the coaſt.

COLCHICUM. Calyx 0. Corolla ſexpartite; tube angular; ſegments concave, erect. Germen within the root. Antheræ quadrivalve. Capſule trilocular. Seeds ſeveral, wrinkled.

1. Autumnale. *Meadow Saffron.* Stem 0. Leaves large, launce-ſhaped, erect, generally periſh before the flower appears. Flower purpliſh white, and large, of ſix petals rather

rather than ſexpartite. Root bulboſe. Auguſt, September. P. On mountains in the north, in a rich ſoil. *Ger.* 157. 2. *Eng. Bot. tab.* 133.

V. POLYGYNIA.

Piſtilla more than 5.

ALISMA. Calyx of 3 leaves, concave, permanent. Corolla of 3 leaves, large, roundiſh, ſpreading. Capſules compreſſed. Seeds ſingle, ſmall.

1. Plantago. *Great Water Plantain.* Stem ſingle, about two feet high, with many branches at the top. Radical leaves oval, ſharp-pointed, intire, on long foot-ſtalks. Flowers reddiſh white. Fruit triangular. June. P. Banks of rivers, &c. frequent. *Curt.* v. 27.

2. Damaſonium. *Star-headed Plantain.* Stem about 8 inches high, much branched, inclining. Leaves oblong, on foot-ſtalks. Flowers white, ſingle, hexagynia, on pedicles, in cluſters. Fruit hexangular. June, Sept. P. In ſtagnant water. *Curt.* v. 28. S. Brit.

3. Natans. *Creeping Water Plantain.* Stem creeping. Leaves oval, obtuſe; thoſe under water long and narrow. Flowers ſingle, on pedicles. Auguſt. P. In lakes, &c.

4. Ranuncloides. *Leſs Water Plantain.* Stem erect, about a foot high. Leaves long, narrow. Flowers bluiſh white, on ſingle pedicles. Fruit round and rough. June—Aug. P. *Ger.* 417. 3.

CLASS VII.

HEPTANDRIA.

Stamina 7.

MONOGYNIA.

Piſtillum 1.

TRIENTALIS. Calyx of 7 leaves. Corolla of one petal, in 7 ſegments. Berry unilocular, dry. Seeds few, angular.

1. Europæa. *Chickweed Winter-green.* Stalk ſlender, 5 or 6 inches high, naked to the top, near which there are 6 or 7 launce-ſhaped leaves. Flowers ſtellate, white, ſingle, on long pedicles, terminal. June. P. In woods, &c. in the northern counties. *Eng. Bot. tab.* 15.

CLASS VIII.

OCTANDRIA.

Stamina 8.

I. MONOGYNIA.

Piſtillum 1.

EPILOBIUM. Calyx quadrifid, above the germen. Corolla of 4 petals. Capſule long, cylindrical, quadrilocular. Seeds numerous, downy. Receptacles very long, angular, flexile, coloured.

1. Anguſtifolium. *Roſebay Willow-herb.* Stem reddiſh, erect, firm, 4 or 5 feet high. Leaves long, narrow, ſeſſile, irregular, numerous. Flowers red, on pedicles, in long ſpikes, unequal, ſtamina and piſtillum inclining. July, Aug. P. Woods and hedges. *Curt.* ii. 24.

2. Hirſutum. *Hairy Willow-herb.* Stem branched, 3 or 4 feet high. Leaves oppoſite, decurrent, launce-ſhaped, ſerrated, hairy. Flowers red, terminal; petals bifid. July. P. On the banks of rivulets, &c. frequent. *Curt.* ii. 21.

3. Montanum. *Smooth-leaved Willow-herb.* Stem branched, 3 or 4 feet high, very ſoft to the touch. Leaves oppoſite, oval, indented. ſmooth Flowers ſmall, red; petals bifid, numerous, terminal. June, July. B. In moiſt meadows. *Curt.* iii. 24.

4. Tetragonum. *Narrow-leaved Willow-herb.* Stem ſquare. Leaves narrow, indented, ſmooth,

lower ones oppoſite. Spike inclining. Flowers red, petals bifid. July. P. On the banks of rivulets, ditches, &c. *Curt.* ii. 23.

5. Paluſtre. *Marſh Willow-herb.* Stem erect, round. Leaves long, narrow, oppoſite, intire, ſmooth. Flowers numerous, large, red; petals bifid. July. P. Fens, &c.

6. Alpinum. *Mountain Willow-herb.* Stem ſcarce a foot long, creeping. Leaves ſomewhat oval, pointed, oppoſite, intire. Flowers few, ſmall, light purple, bifid. Pods ſeſſile. July. P. Northumberland, in rivulets.

7. Villoſum. *Woolly Willow-herb.* CURT. Leaves lanceolate, ſerrated, downy, decurrent, ſeſſile. Stem generally ſimple, cylindrical, woolly. *Curt.* i. 22. July. Aug. P. On the banks of rivers.

VACCINIUM. Calyx minute, quadridentate, above the germen, permanent. Corolla generally quadrifid. Filaments inſerted in the receptaculum. Styles longer than the ſtamina. Berry quadrilocular, with many angular ſeeds.

1. Myrtillus. *Black Whortle Berries,* or *Bilberries.* A ſmall ſhrub. Stem angular, branched. Leaves oval, ſerrated, deciduous. Flowers reddiſh white, on ſingle pedicles, pendulous. Fruit bluiſh black, ſmall. Apr. P. In woods, heaths, &c. *Ger.* 1415. 1.

2. Uliginoſum. *Great Bilberry Buſh.* A ſhrub about 2 feet high. Leaves oval, intire, ſmooth, fringed at the baſe, deciduous. Flowers ſingle, purpliſh white. Fruit bluiſh black, larger than the laſt. P. April, May. In the north. *Ger.* 1416. 6.

3. Vitis

3. Vitis idæa. *Red Whortle Berries.* An ever-green ſhrub. Stem inclining? Leaves oval, narroweſt near the foot-ſtalk, intire, ſpotted on the under-ſide. Flowers reddiſh white, in pendulous cluſters. Berries red. P. April, May. In the mountainous part of the northern counties. *Ger.* 1415. 2.

4. Oxycoccus. *Crane Berries.* An ever-green ſhrub. Stem very ſlender, creeping, naked. Leaves intire, oval, curled. Flowers reddiſh white, on pedicles. Fruit red. May, June. On moors in the northern counties. *Ger.* 1419.

ERICA. Calyx of 4 leaves, coloured, permanent. Corolla campanulate, quadrifid. Filaments inſerted in the receptacle. Capſule quadrilocular, quadrivalve. Seeds numerous, minute. Slender ſhrubs.

* *Antheræ with two horns.*

1. Vulgaris. *Common Heath*, or *Ling.* Stem ſlender, brown, woody, 1 or 2 feet high. Leaves imbricated, covering the ſtem in a quadruple ſeries. Flowers purpliſh, in ſpikes, terminal; corolla like the calyx, unequal. June—Sept. On heaths frequent. *Curt.* v. 30.

2. Cinerea. *Fine-leaved Heath.* Stem ſimple, woody; bark aſh colour. Leaves narrow, ſmooth, in triple ſeries. Flowers crimſon, pendulous, in terminal ſpikes. June—Auguſt. On heaths and in dry woods. *Curt.* ii. 25.

3. Tetralix. *Croſs-leaved Heath.* Leaves quadruple, hairy, ſpreading. Corolla nearly globoſe, aggregate, longer than the calyx. July, Auguſt. On moiſt heaths. *Curt.* i. 21.

** *Antheræ*

** *Antheræ ſimple, obtuſe, notched.*

4. Ciliaris. *Rough-leaved Heath.* Leaves triple, hairy, ſeſſile, ſpreading, acute, reflex. Corollæ irregular, oval, large, in terminal triple whirls. On heaths. S. Brit.

5. Multiflora. *Fir-leaved Heath.* Leaves narrow, quintuple. Flowers numerous; corollæ campanulate, long. June, July. Heaths in Cornwall. S. Brit. *Erica Vagans. Eng. Bot. tab.* 3.

6. Daboecia. *Iriſh Whorts.* Stem woody, branched, hairy, brown. Leaves oval, alternate, ſubſeſſile, curled at the edges, white and downy on the under-ſide. Flowers large, in long terminal bunches. Ireland. *Hudſ.* Habit of an Andromeda. *Eng. Bot. tab.* 35.

7. Didyma. *Double-tipped Heath.* Antheræ double, projecting; filaments capillary. Corolla campanulate. Style projecting. Leaves in fives. Flowers on ſtalks much longer than the flower. *With.* S. Brit.

DAPHNE. Calyx 0. Corolla of one petal, funnel-ſhaped, tube cylindrical, imperforate; limb quadrifid; ſegments acute, ſpreading. Stamina very ſhort, inſerted into the tube. Style very ſhort. Berry unilocular, with a ſingle ſeed.

1. Mezereum. *Spurge Olive.* A ſtrong ſhrub, 4 or 5 feet high. Flowers ſeſſile, round the ſtem, pale red, appear before the leaves, which are launce-ſhaped, ſmooth, crowning the tops of the branches. Mar. In woods near Andover. *Ger.* 1402. 2.

2. Laureola.

2. Laureola. *Spurge Laurel.* An ever-green ſhrub, 4 or 5 feet high. Leaves on the tops of the branches, numerous, launce-ſhaped, ſmooth. Flowers from the alæ of the leaves, yellowiſh green, ſmall, on pedicles. March, April. In woods. *Ger.* 1404. 1.

II. DIGYNIA.

Piſtilla 2.

GENTIANA. Calyx octifid. Corolla of 1 petal, octifid, length of the calyx, without tube. Styles 0. Capſule oblong, pointed, unilocular, bivalve. Seeds numerous, ſmall.

1. Perfoliata. *Yellow Centaury.* Stem about 2 feet high, at the top branched and ſub-divided. Leaves perfoliate, united at the baſe, launce-ſhaped, intire. Flowers yellow, in looſe cluſters, terminal. July A. In high paſtures. Chlora perfoliata. Hudſon. *Eng. Bot. tab.* 60.

III. TRIGYNIA.

Piſtilla 3.

POLYGONUM. Calyx 0. Corolla 5-partite, reſembling a calyx. Stamina and piſtilla very ſhort. Seed 1, angular.

1. Biſtorta. *Great Biſtort,* or *Snakeweed.* Stem ſimple, round, ſlender, jointed, near 2 feet high. Lower leaves on foot-ſtalks, oval, whitiſh on the under ſide; upper leaves narrower, ſurrounding the ſtem at their baſe. Flowers pale red, in 1 ſhort

thick ſpike. May, June. P. In wet meadows. *Curt.* i. 22.

2. Viviparum. *Small Biſtort*, or *Snakeweed.* Stem ſimple, ſlender, jointed, 6 or 8 inches high. Radical leaves broad, the reſt long, narrow. Flowers whitiſh, on a ſingle thin ſpike. P. June. In high paſtures in the north. *Ger.* 399. 2.

3. Penſylvanicum. *Pale Arſmart.* Stamina ſometimes leſs than 8. Stem with many branches, angular. Leaves launce-ſhaped, pointed, with a rough longitudinal ridge on the under-ſide. Flowers on rough glutinous pedicles, in looſe ſpikes. Aug. A. In fields and waſte ground frequent. *Curt.* i. 24. S. Brit.

4. Maritimum. *Sea Knot-graſs.* A ſhrubby evergreen. Leaves oval, thick, whitiſh beneath. Flowers white, quatern, in the alæ of the leaves. July. P. On the coaſt. S. Brit. Made a variety of the following by Hudſon.

5. Aviculare. *Knot-graſs.* Stem herbaceous, procumbent, branched. Leaves launce-ſhaped, but various. Flowers reddiſh white, in the alæ of the leaves. June—Sept. A. In fields, &c. frequent. *Curt.* i. 27.

6. Convolvulus. *Black Bindweed.* Stem weak, voluble, ſtriated. Leaves heart-ſhaped, ſingle, diſtant. Flowers whitiſh, in looſe cluſters, from the alæ of the leaves. Seed triangular. June—Sept. A. In corn-fields, &c. frequent. *Curt.* iv. 29.

7. Fagopyrum. *Buck-wheat*, or *Brank.* Stem ſingle, erect, branched, about 2 feet high. Leaves heart-ſhaped, pointed, on pedicles. Flowers

Flowers purpliſh white, on pedicles, in looſe ſpikes. Angles of the ſeeds equal. July, Aug. A. In corn-fields, &c. frequent, though not a native. *Ger.* 89.

For Polygonum Hydropiper. Perſicaria. Minus. Vide *Hexandria Digynia.*

IV. TETRAGYNIA.

Piſtilla 4.

PARIS. Calyx of 4 leaves. Petals 4. Berry quadrilocular. Seeds numerous.

1. Quadrifolia. *Herb Paris, True-love,* or *One-berry.* Stem ſingle, ſimple, about 10 inches high. Leaves oblong, 4 or 5, near the top. Flower greeniſh white, ſingle, terminal. Berry bluiſh black. May, June. P. In woods. *Ger.* 405. 1. *Eng. Bot. tab.* 7.

ADOXA. Calyx bifid, Corolla quadrifid, or quinquifid, above the germen. Berry quadrilocular, between the calyx and corolla.

1. Moſchatellina. *Tuberous Moſchatel,* or *Muſk Wood Crowfoot.* Stalk ſmooth, ſlender, about 4 inches high, with a pair of lobed leaves in the middle, on ſhort-foot-ſtalks. Flowers terminal, 5, yellowiſh green. Berries green. Apr. May. P. In woods. *Curt.* ii. 26.

ELATINE. Calyx of 4 leaves. Petals 4. Capſule quadrilocular, quadrivalve, depreſſed. Seeds many.

1. Alſinaſtrum. *Waterwort.* Leaves long and very narrow, in whirls. Auguſt. P. In ditches. S. Brit.

CLASS

CLASS IX.

ENNEANDRIA.

Stamina 9.

HEXAGYNIA.

Piſtilla 6.

BUTOMUS. Calyx 0. Petals 6. Capſules 6. Seeds many.

1. Umbellatus. *Flowering Ruſh*, or *Water Gladiole.* Stem round, thick, naked, about 2 feet high. Radical leaves numerous, long, narrow. Flowers reddiſh white, in a kind of umbel, terminal. P. June, Rivers, ditches, &c. *Curt.* i. 29.

CLASS

CLASS X.

DECANDRIA.

Stamina 10.

I. MONOGYNIA.

Piſtillum 1.

MONOTROPA. Calyx 0. Petals. 10, ſerrated at the top, deciduous; the exterior 5 gibbous, meliferous. Capſule oval, pentangular, quinquevalve. Seeds numerous, chaffy. *N. B.* This deſcription reſpects the terminal flower only; the lateral flowers have but 8 ſtamina, &c.

1. Hypopithys. *Bird's Neſt.* Stalks twiſted, naked, except a few membranes looſe, 8 or 10 inches high. Flowers yellow. The whole plant ſmells like primroſe roots. July. P. In woods, but rare. *H. ox.* xii. 16. *Eng. Bot. tab.* 69.

ANDROMEDA. Calyx with 5 ſegments. Corolla oval, of 1 petal, quinquifid, reflex. Capſule quinquelocular, quinvevalve. Seeds numerous, poliſhed.

1. Polifolia. *Marſh Ciſtus*, or *Wild Roſemary.* Stem ſhort, branched. Leaves narrow, curved at the edges, and alternate. Flowers reddiſh, on pedicles, in cluſters. Apr. May. P. On turf-bogs in the north. *Park.* 76. 7.

ARBU-

ARBUTUS. Calyx minute, quinquepartite, permanent. Corolla of 1 petal, oval, quinquifid, reflex. Berry quinquelocular. Seed ſmall, hard.

1. Unedo. *Common Strawberry-tree.* A ſhrub. Stem erect. Leaves ſmooth, ſerrated. Flowers white. Berries red, with many ſeeds. September. In the weſt of Ireland. *Ger.* 1496.

2. Alpina. *Mountain Strawberry-tree.* Stem procumbent, about a foot long. Leaves rough, ſerrated. Fruit large, bluiſh black. May. In the north. *Lightf.* 216.

3. Uva Urſi. *Bear-berries.* Stems woody, numerous, diffuſe, procumbent. Leaves oval, intire. Flowers white, on pedicles, in cluſters, with a purple calyx. June. *Wallis Northumberland*, p. 148.

PYROLA. Calyx minute, in 5 ſegments, permanent. Petals 5, roundiſh, concave, ſpreading. Capſule quinquelocular, opening at the angles.

1. Rotundifolia. *Common Winter-green.* Stem ſingle, ſimple, about 6 inches high. Radical leaves ſmooth, roundiſh, on very long foot-ſtalks. Flowers white, bell-ſhaped, on ſlender pedicles, in a ſhort thin ſpike; ſtamina aſcending; piſtillum declined. June, July. P. In woods, chiefly in the north. *Ger.* 408. 1.

2. Minor. *Leſs Winter-green.* Stem about 4 inches high. Leaves generally ſerrated. Spike compact; flowers reddiſh white; ſtamina and piſtillum erect. Aug. P. With the laſt.

3. Secunda. *Tender Winter-green.* Stalk ſlender, about 6 inches high, with a ſpike on one

ſide only. Leaves pointed, ſerrated. P. Jun. In woods in the north. *Ger.* 408. 2.

II. DIGYNIA.

Piſtilla 2.

CHRYSOSPLENIUM. Calyx above the germen, in 4 or 5 ſegments, coloured, ſpreading. Corolla 0. Stamina, in the lateral flowers, generally but 8, very ſhort. Capſule with a double beak, unilocular, bivalve, with ſeveral ſmall ſeeds.

1. Alternifolium. *Alternate-leaved golden Saxifrage.* Stalk 5 or 6 inches long. Leaves roundiſh, hairy, notched round the edges, on long foot-ſtalks, pale green. Flowers on ſhort pedicles, in ſmall cluſters, terminal, bright gold colour. P. April. In woods in the north. *Eng. Bot. tab.* 54.

2. Oppoſitifolium. *Common golden Saxifrage.* Leaves roundiſh, on ſhort foot-ſtalks, oppoſite. Flowers gold colour, in the alæ of the leaves, very ſmall. Stalks weak, 4 inches high. April. P. In woods near Hampſtead, &c. *Curt.* ii. 27.

SAXIFRAGA. Calyx ſmall, in 5 acute ſegments Corolla of 5 petals, ſpreading. Capſule with two beaks, unilocular, opening between the points. Seeds numerous, ſmall.

* *Leaves undivided. Stalks naked.*

1. Stellaris. *Hairy Kidney-wort.* Stalks ſimple. Leaves oblong, indented at the end, hairy. Flowers white, petals pointed, with a ſemi-

lunar yellow ſpot near the baſe, in a looſe terminal ſpike. Jun. July. P. On high mountains near water. *Eng. Bot. tab.* 167.

2. Nivalis. *Mountain Sengreen.* Radical leaves, oval, notched, on ſhort foot-ſtalks, ſpread in tufts upon the ground. Stalk ſimple, about a foot high, bearing a roundiſh ſpike of white flowers; petals acute, ſpotted. June P. On the Welch mountains, and in Scotland. *Lightf. p.* 127.

3. Umbroſa. *London Pride.* Leaves inverſely oval, notched. Stem naked, paniculate. *Mill.* 141. 2. S. Brit.

** *Leaves undivided. Stem bearing leaves.*

4. Oppoſitifolia. *Mountain Heath-like Sengreen.* Stem creeping; branches numerous, ſhort, procumbent. Leaves of the ſtem oval, oppoſite, quadruple, imbricated, upper leaves fringed. Flowers blue, ſingle; calyx hairy, purple. April, May. P. Among rocks, on high mountains. *Flor. dan.* 34. *Eng. Bot. tab.* 9.

5. Hirculus. *Marſh Saxifrage.* Stem-leaves lanceolate, alternate, naked, unarmed. Stem erect, purple, hairy. July. Aug. P. on turf bogs. S. Brit. *Ger.* 1284. 8.

6. Autumnalis. *Autumnal Sengreen.* Stalks ſeveral, ſimple, about a foot high. Radical leaves in tufts, prickly at the edges; thoſe on the ſtalk narrow, alternate, fringed. Flowers yellow, ſpotted, on long pedicles, from the alæ of the upper leaves. July, Aug. P. On turf-bogs in Cheſhire, &c. *Ger.* 516. 2.

7. Aizoides. *Yellow Mountain Sengreen.* Differs from the laſt in the ſtem being procumbent, the leaves

leaves not fringed, and growing leſs regularly alternate on the ſtem. Aug. On the ſides of mountains in the north. *Eng. Bot. tab.* 39.

**** Leaves lobed. Stem erect.*

8. Granulata. *White Sengreen*, or *Saxifrage*. Root granulated. Stem a foot high, branched, with few leaves, alternate. Radical leaves reniform, lobed, on long pedicles. Flowers large, white, in ſhort looſe ſpikes; calyx hairy, May. A. In dry meadows, &c. *Curt.* i. 30.

9. Tridactylites. *Rue-leaved Sengreen*, or ~~*Yellow-*~~ *Whitlow-graſs*. Stem ſmall, branched, hairy, clammy, often red. Leaves alternate, wedge-ſhaped, trifid, hairy; the lower ones on long foot-ſtalks. Flowers white, ſingle, on pedicles from the alæ of the leaves. April. A. In waſte ground, on walls, &c. *Curt.* ii. 28.

10. Cæſpitoſa. *Small Mountain Sengreen*. Radical leaves numerous, narrow, ſome intire, others bifid or trifid, in a thick tuft on the ground. Stem almoſt naked, about 3 inches high, bearing 2 or 3 greeniſh white flowers. Aug. P. On the mountains in Weſtmoreland, &c. S. Brit.

***** Leaves lobed. Stem procumbent.*

11. Hypnoides. *Trifid Sengreen*. Stem about 6 inches high, much branched, clammy, reddiſh. Leaves narrow, trifid, clammy, on pedicles. Flowers greeniſh white. April, May. P. On mountains in the northern counties. *H. ox.* xii. 9. 26.

SCLERANTHUS. Calyx tubular, quinquifid. Corolla 0. Stamina minute. Capſule oval, minute, in the neck of the calyx. Seeds 2.

1. Annuus. *German Knot-graſs*, or *Knawel*. Stem branched, procumbent. Leaves long, narrow, oppoſite. Calyx of the fruit ſpreading. Flowers greeniſh, in the alæ of the leaves, ſmall. Aug. A. In corn-fields, &c. *Ger.* 566. 4.

2. Perennis. *Perennial Knawel*. Stem ſhorter, and flowers larger than the laſt. Calyx of the fruit ſhut. Flowers in terminal bunches. Leaves hoary. Aug. P. In ſandy corn-fields. *Ger.* 567. 5. S. Brit.

3. Polycarpus. Calyces ſpinous, wide-ſpreading. Stem ſub-villous. Said to have been found in Eſkdale, Scotland. *Lightf. App.* 1134.

SAPONARIA. Calyx of 1 leaf, tubular, with 5 teeth, permanent, generally burſting on one ſide. Corolla of 5 petals, unguiculate. Capſule the length of the calyx, covered, unilocular, cylindrical. Seeds ſeveral, ſmall.

1. Officinalis. *Sopewort*. Stem branched, about 2 feet high. Leaves elliptical, long, pointed, with 3 longitudinal ribs, firm, ſmooth, oppoſite. Flowers white or reddiſh, in umbels terminating the branches. July, Aug. P. In hedges, &c. *Curt.* ii. 29. S. Brit.

DIANTHUS. Calyx of 1 leaf, cylindrical, tubular, ſtriated, with 5 teeth, and 4 ſcales round the baſe. Corolla of 5 petals, with claws as long as the calyx. Styles longer than

than the ſtamina. Capſule cylindrical, covered, unilocular.

1. Armeria. *Deptford Pink.* Stem jointed, above a foot high. Leaves in pairs, pointed, broad. Flowers red, in the alæ of the leaves, aggregate, in cluſters; ſcales of the calyx hairy, launce-ſhaped; petals pointed, jagged. July. A. In meadows. &c. *Ger.* 594. 11. S. Brit.

2. Prolifer. *Limewort.* Stem branched, not quite a foot high. Leaves oppoſite, long, narrow. Flowers ſmall, red, aggregate, in roundiſh heads; ſcales of the calyx oval, obtuſe, longer than the tube. Aug. A. Rare. *Ger.* 599. 5. S. Brit.

3. Deltoides. *Maiden Pink.* Stem branched, part procumbent, part erect, 6 or 7 inches high. Leaves oppoſite, oblong. Flowers bright red, ſingle, terminal; petals notched. June—Sept. B. In meadows, heaths, &c. *Ger.* 593. 6. *Eng. Bot. tab.* 61.

4. Glaucus. *Mountain Pink.* Stem branched. Scales of the calyx launce-ſhaped, four in number, ſhort. Flower white. Corolla notched. July. P. On mountains. *With. Eng. Bot. tab.* 62.

5. Arenarius. *Stone Pink.* Stem with a ſingle flower. Scales of the calyx obtuſe. Flower red, hairy; petals multifid. Leaves narrow. July. P. In dry paſtures, &c. but rare. *Ger.* 594. 12.

6. Caryophyllus. *Pink.* Flowers ſolitary. Scales of the calyx ſub-oval, very ſhort. Corolla notched. On old walls. *Ger.* 474. 2. July. P.

7. Barbatus. *Sweet William.* Flowers aggregated. Scales of the calyx ovato-ſubulate, as long as the tube. Leaves lanceolate. On a ſtone wall, at King's Weſton, near Briſtol. Perhaps not Britiſh.

III. TRIGYNIA.

Piſtilla 3.

CUCUBALUS. Calyx inflated, with 5 teeth, permanent. Corolla of 5 regular, bifid, unguiculated petals, not crowned by a nectarium. Capſule covered, pointed, trilocular. Seeds many. Leaves oppoſite.

1. Bacciferus. *Berry-bearing Chickweed.* Stem weak, procumbent, branched, forked. Leaves at the joints, in pairs, oval, pointed. Calyx campanulate. Flowers ſmall, white; petals diſtant from each other. Pericarpium like a berry, coloured. July. P. In hedges in the Iſle of Man. *Ger.* 614. 13. Transferred by Dr. Withering to the next genus.

2. Behen. *Bladder Campion*, or *White Corn-campion.* Stem about 2 feet high, jointed, branched, procumbent. Leaves ſmooth, oval, pointed at the joints, oppoſite, pale. Flowers white, on foot-ſtalks, ſingle. Calyx globoſe, white, ſmooth, reticulate. July. P. In corn-fields, &c. *Ger.* 678. 2. *Eng. Bot. tab.* 164.

3. Otites. Vide *Dioecia Decandria.*

4. Viſcoſus. *Viſcous*, or *Dover Campion.* Stem undivided. Leaves reflected at the baſe. Flowers white, hanging down on all ſides. July. P. On Dover clifts.

SILENE.

SILENE. Calyx bellying, with 5 teeth, permanent. Corolla of 5 regular, bifid, unguiculated petals, crowned by a nectarium. Capſule cylindrical, covered, triloculer. Seeds many. Leaves oppoſite.

1. Anglica. *Small Corn Campion*, or *Catchfly*. Stem weak, hairy, above a foot high. Leaves oblong, in pairs at the joints. Flowers ſmall, white, intire, on pedicles from the alæ of the leaves, erect, alternate, ſingle, lateral. June, July. A. In corn-fields. *Curt.* iv. 30. S. Brit.

2. Nutans. *Nottingham Catchfly*. Stem about 2 feet high, firm. Radical Leaves broad, obtuſe, in a tuft; thoſe on the ſtem narrow, acute. Flowers white, in lateral panicles; petals bifid, curled; calyx long, bellying a little, with ten longitudinal ſtriæ. June, July. P. In high paſtures, &c. *Ger.* 470. 8. S. Brit.

3. Amoena. *Sea Campion*. Stem 2 or 3 feet long, ſlender, procumbent, branched alternately. Leaves long, narrow. Flowers white, on oppoſite pedicles, 3 on each, in unilateral bunches. Calyx 10-angular, hairy, purpliſh. June, July. P. On the ſouth coaſt. *Ger.* 469. 2.

4. Conoidea. *Greater Corn Catchfly*, or *Campion*. Leaves narrow, ſoft. Calyx conical, with 30 ſtriæ. Flowers from the divarications of the ſtem; petals intire. In corn-fields. *Ger.* 470. 7. Jun. A. S. Brit.

5. Noctiflora. *Night-flowering Catchfly*. Stem about 2 feet high, forked. Calyx 10-angular, ſomewhat clammy, oval, with longer teeth than the other ſpecies; petals reddiſh white. July. A. In corn-fields.

6. Armeria. *Broad-leaved Catchfly.* Stem about 18 inches high, erect, with few branches. Leaves ſmooth, ſmile, broad at the baſe. Flowers terminal, in faſtigiate bundles, ſmall, red. July, Auguſt. A. On the banks of rivers.

7. Acaulis. *Moſs Campion.* Radical leaves ſpread on the ground like a tuft of moſs. Stalks about an inch long, naked, bearing each a ſingle purple flower. July. P. On mountains in Wales, &c. *Lightf. pl.* 12. *p.* 227. Cucubalus of Hudſon.

8. Quinque vulnera. *Variegated Catchfly.* Petals of corolla very intire, roundiſh, fruit erect, alternate. June—Auguſt. A. In a ſandy ſoil. *Eng. Bot. tab.* 86.

STELLARIA. Calyx of 5 leaves, ſpreading, permanent. Corolla of 5 petals, each in 2 ſegments. Capſule oval, covered, unilocular, ſexvalve. Seeds ſeveral.

1. Nemorum. *Broad-leaved Stichwort.* Stem not quite erect, ſimple. Leaves oppoſite, broad at the baſe, waved round the edges, pointed on foot-ſtalks. Flowers terminal, in looſe panicles, white. July, Aug. In woods, banks of rivers, &c. in the north. *H. ox.* v. 23. 2. *Eng. Bot. tab.* 92.

2. Holoſtea. *Greater Stichwort.* Stalks numerous, ſlender, jointed, near 2 feet long. Leaves oppoſite, harſh, launce-ſhaped, ſlightly ſerrated. Flowers white, numerous. April, May. P. In woods and hedges frequent. *Curt.* ii. 30.

3. Graminea. *Leſs Stichwort.* Stem more firm than the laſt, and not quite a foot high. Leaves narrower,

narrower, oppoſite, intire. Flowers in looſe panicles, white, July. A. In moiſt ground frequent.

ARENARIA. Calyx of five leaves, ſpreading, permanent. Corolla of five petals, intire, oval. Capſule unilocular, covered, oval, opening at the top in five parts. Seeds many. Leaves oppoſite.

1. Peploides. *Sea Chickweed.* Stalks ſhort, numerous, ſpreading on the ground, thick ſet with leaves, oppoſite, oval, pointed, thick. Flowers ſmall, white. Capſule large. June, July. P. On the coaſt frequent. *Ger.* 622. 1. *Eng. Bot. tab.* 189.

2. Trinervia. *Plantain-leaved Chickweed.* Stems about ſix inches high, numerous, weak. Leaves oval, pointed, with three longitudinal ribs, on foot-ſtalks, ſtringy. Flowers white, on pedicles. May. A. In moiſt woods and hedges frequent. *Curt.* iv. 31.

3. Serpyllifolia. *Leaſt Chickweed.* Stalks numerous, branched, about three inches high. Leaves ſeſſile, oval, pointed. Flowers white, numerous, terminal; petals intire, ſhorter than the calyx. May, June. A. On walls and ſandy ground frequent. *Curt.* iv. 32.

4. Verna. *Mountain Chickweed.* Stalks numerous, much branched, about 3 inches long. Leaves narrow, linear, cloſe. Flowers on pedicles, ſingle, in terminal panicles, or umbels. Aug. P. In the mountainous parts of the kingdom.

5. Tenuifolia. *Fine-leaved Chickweed.* Stalks branched, procumbent or erect, thick ſet with leaves.

leaves. Leaves narrow, ſpotted. Flowers ſingle, on pedicles, in vaginal panicles. Petals ſhorter than the calyx. Capſules erect. June, July. P. On walls, &c. but rare.

6. Laricifolia. *Larch-leaved Chickweed.* Root woody. Stalks ſeveral, almoſt naked at the top, ſix inches high. Leaves in bundles, like briſtles, but ſoft. Flowers ſingle, terminal, large. Calyx hairy. July, Aug. P. On the mountains in the north.

7. Rubra. *Purple-flowered Chickweed*, or *Spurry.* Stalks numerous, weak, jointed, three or four inches high. Leaves narrow, with membranous vaginal ſtipulæ. Flowers purple, on pedicles, ſingle. June, July. A. In corn-fields, and on the coaſt.

CHERLERIA. Calyx of five leaves. Corolla o. Nectaria five, notched, minute. Antheræ, alternately ſterile. Capſule trilocular, trivalve.

1. Sedoides. *Moſſy* C. Stalks two inches high, matted together, and crowded with leaves, oppoſite, linear, acute, firm, with rough edges, and collected in a ſheath at the bottom. Flowers ſingle, erect, pedunculate, yellow-green, terminal. July, Auguſt. P. N. Brit. Highlands. *Lightf. Park.* 737. 11.

V. PENTAGYNIA.

Piſtilla 5.

COTYLEDON. Calyx ſmall, quinquifid, acute. Corolla of one petal, bell-ſhaped, quinquifid. Germina five, with a nectariferous

niferous ſcale at the baſe of each. Capſules five, oblong, unilocular. Seeds ſeveral.

1. Umbilicus. *Navelwort, Kidneywort,* or *Wall Pennywort.* Stem about ſix inches long, branched. Radical leaves round, an inch in diameter, notched round the edges, on long foot-ſtalks fixed in the center of the leaf. Flowers yellowiſh, in long ſpikes, pendulous. May, July. P. On old walls, &c. but rare. *Ger.* 528.

2. Lutea. *Yellow Navel-wort.* CURT. Leaves target-ſhaped, ſcalloped. Stem nearly ſimple. Flowers erect. Floral leaves dentated. *Hudſ.* June. P. On walls rare.

SEDUM. Calyx quinquifid, acute. Corolla of five petals, pointed, ſpreading. Germina five, oblong, with a nectariferous ſcale at the baſe of each. Capſules five. Seeds many, ſmall.

1. Telephium. *Orpine,* or *Live-long.* Stem near two feet high, erect, thick ſet with oblong ſerrated leaves, which, with the ſtem, are bluiſh green, ſucculent, and often reddiſh. Flowers large, purple, in terminal leafy bunches. Aug. P. In paſtures, &c. *Curt.* iii. 25.

2. Daſyphyllum. *Round-leaved Stonecrop.* Stem weak. Leaves oval, thick, obtuſe, oppoſite. Flowers white, ſcattered. July. P. On walls, &c. *Curt.* iii. 26. S. Brit.

3. Reflexum. *Yellow Stonecrop,* or *Prick-madam.* Stalks ſome procumbent, others erect, often red. Upper branches curved. Leaves numerous, ſcattered, thick, ending in a ſharp point, with a looſe membrane at the baſe,

baſe, the lower leaves bent back. Flowers yellow, in bunches, terminal. July. P. On walls, &c. frequent. *Ger.* 512. 1—513. 6.

4, Rupeſtre. *St. Vincent's Rock Stonecrop.* Stem procumbent. Leaves thick, narrow, pointed, with looſe membranes at the baſe, numerous, five together. Flowers yellow, in bunches, terminal. Aug. P. On rocks, &c. *Eng. Bot. tab.* 170.

5, Album. *White-flowered Stonecrop.* Leaves thick, numerous, obtuſe, roundiſh, ſeſſile. Flowers white, in branched bunches, terminal. June, July. P. On walls, &c. frequent. *Curt.* i. S. Brit.

6. Acre. *Wall Stonecrop* or *Pepper.* Stalks weak, three or four inches high, thick ſet with thick, oval, pointed leaves, alternate. Flowers yellow, in trifid bunches, terminal. June. P. On walls, &c. frequent. *Curt.* i. 32.

7. Sexangulare. *Inſipid Stonecrop.* Leaves oval, ſeſſile, gibbous, imbricated, ſix together. Branches not numerous. Flowers yellow, generally three on each branch of the cluſter. July. B. In dry meadows. *Curt.* iv. 33.

8. Annuum. *Mountain Stonecrop.* Stem ſingle, erect, but weak. Leaves oval, ſeſſile, gibbous, whitiſh, alternate. Flowers white, or mixed with red, on curved branches. Not acrid. Aug. A.

9. Villoſum. *Marſh Stonecrop* Stem erect, about ſix inches high, below ſmooth, above hairy.

hairy. Leaves not very thick, obtuſe. Flowers purpliſh-red, with a purple line, on hairy pedicles, in cluſters, terminal. June. A. On mountains in the north. *Ger.* 516. 1.

10. Anglicum. *Engliſh Stonecrop.* Stem round, procumbent, ſmooth, reddiſh. Leaves alternate, ſeſſile. Flowering ſtem bifid. July, Auguſt. P. On rocks and among ſtones. *Eng. Bot. tab.* 171.

OXALIS. Calyx of five leaves, or parts. Corolla of five petals, adhering to each other by their claws. Exterior ſtamina ſhorteſt. Capſule pentangular, quinquelocular.

1. Acetoſella. *Wood Sorrel.* Root long, ſcaly, jointed. Leaves heart-ſhaped, three on each foot ſtalk. Flowers reddiſh-white, ſingle, on ſlender ſtalks or rather pedicles. April. P. In woods, &c. *Curt.* ii. 31.

2. Corniculata. *Yellow-flowered Wood Sorrel.* Stem branched, diffuſe, procumbent, creeping, reddiſh. Leaves ternate, heartſhaped, pale-green, about the ſize of the nail of the little finger, on ſlender foot-ſtalks near an inch long. Flowers yellow, on umbelliferous pedicles. Capſules long, pointed. May—Oct. A. S. Brit. I am obliged to Mr. John Turner of Lympſton, near Exeter, for a ſpecimen of this plant, who found it in ſeveral places in the neigbourhood of that city, and who, I believe, firſt diſcovered it in theſe kingdoms.

AGROSTEMMA. Calyx of one leaf, as long as the corolla, coriaceous, tubular, with five teeth. Petals five, with claws as long as the tube of the calyx, ſpreading, obtuſe, intire.

Capſule oval, covered, unilocular, quinquevalve. Seeds ſeveral, punctured.

1. Githago. *Cockle.* Stem erect, branched, hairy, two feet high. Leaves oppoſite, long, narrow, hairy, ſeſſile. Flowers terminal, large, purple. June. A. In corn-fields. *Curt.* iii. 27.

LYCHNIS. Calyx tubular, ſmooth, membranous, with five teeth. Corolla of five petals. Styles longer than the ſtamina. Capſule covered, oval, quinquevalve. Seeds ſeveral.

1. Flos Cuculi. *Meadow Pink,* or *Cuckow-flower.* Stem about two feet high, branched, ſtriated, hollow. Leaves oppoſite, long, narrow, ſeſſile. Flowers red, large, terminal; petals quadrifid. June. P. In moiſt meadows, &c. *Curt.* i. 33.

2. Viſcaria. *Red German Catchfly.* Stem erect, ſimple, clammy towards the top. Leaves oppoſite, ſeſſile, oblong, pointed. Flowers ſmall, red, in cluſters, terminal; petals intire. May, June. P. In high grounds. *Ger.* 601. 3.

3. Dioica. Vide *Dioecia Decandria.*

CERASTIUM. Calyx of five leaves, ſpreading. Petals, five, the length of the calyx, obtuſe, bifid. Capſule unilocular, with five teeth at the apex. Seeds many. Leaves oppoſite, ſeſſile.

* *Capſules oblong.*

1 Vulgatum. *Narrow-leaved Mouſe-ear Chickweed.* Stalks jointed, branched, diffuſe, about a foot high. Leaves hairy, oval, pointed.

Flowers ſmall, white in the alæ of the upper leaves. June. A. In meadows, &c. frequent. *Curt.* ii. 34.

2. Viſcoſum. *Viſcous Mouſe-ear Chickweed.* Stalks erect, hairy, clammy. Leaves hairy, obtuſe. Flowers like the laſt. April, May. A. In dry meadows, &c. *Curt.* ii. 35.

3. Semidecandrium. *Leaſt Mouſe-ear Chickweed.* Stalks diffuſe, branched, two inches high. Leaves, hairy. Flowers white, ſmall, petals notched; five of the ſtamina have no antheræ. April. A. In meadows frequent. *Curt.* ii. 33.

4. Arvenſe. *Corn Mouſe-ear Chickweed.* Stalks weak, in part procumbent, ſix or eight inches high, hairy. Leaves narrow, ſmooth. Flowers large, white, in the alæ of the branches, and at the top; corolla longer than the calyx. May. P. In fields, &c. on gravel. *Ger.* 595. 15. *Eng. Bot. tab.* 93.

5. Alpinum. *Alpine Mouſe-ear Chickweed.* Stalks numerous, procumbent, divided. Leaves oval, pointed. Flowers large, white; petals longer than the calyx. June. P. On mountains. *Fl. dan.* 6.

** *Capſules roundiſh.*

6. Latifolium. *Broad-leaved Mouſe-ear Chickweed.* CURT. Leaves oval, woolly. Branches three inches long, generally with one flower, erect, large. May. P. *Lightf.* x. p. 199.

7. Aquaticum. *Marſh Mouſe-ear Chickweed.* Stalks procumbent, a foot long. Leaves heart-ſhaped. Flowers white, ſingle; fruit pendulous.

dulous. July. P. On the banks of rivers. *Curt.* i, 34.

8. Tomentoſum. *Woolly Mouſe-ear Chickweed.* Leaves oblong, woolly. Flowers large, on branched pedicles. Capſule globoſe. May. P. On the Welch mountains frequent. S. Brit.

SPERGULA. Calyx of five leaves, concave, ſpreading. Petals five, oval, concave, ſpreading, larger than the calyx, intire. Capſule oval, covered, unilocular, quinque-valve. Seeds ſeveral.

1. Arvenſis. *Corn Spurry.* Stalks erect, jointed, branched towards the top. Leaves narrow, in whirls round the joints. Flowers ſmall, white, terminal. Aug. A. In fields, on gravel. *Curt.* v. 31.

2. Nodoſa. *Knotted Spurry*, or *Engliſh Marſh Saxi-frage.* Stalk ſimple, procumbent, five inches long. Leaves ſmooth, narrow, pointed, two larger at each joint, oppoſite. Flowers white, terminal. July. P. *Curt.* iv. 34.

3. Pentandria. vide *Pentandria Pentagynia.*

4. Laricina. *Ciliated Spurry.* Leaves oppoſite, very fine and numerous. Flower ciliated, with only five perfect ſtamina. June, July. P. On ſandy heaths.

CLASS

CLASS XI.

DODECANDRIA.

Stamina 11 to 19 inclusive.

I. MONOGYNIA.

Piſtillum 1.

ASARUM. Calyx quadrifid, coloured, above the germen. Corolla 0. Stamina and piſtilla half the length of the calyx. Stigma ſtellate. Capſule coriaceous, crowned. Seeds ſeveral.

1. Europæum. *Aſarabacca.* Leaves reniform, an inch in diameter, ſingle, on long foot-ſtalks, two together. Flowers ſingle, purpliſh, on ſhort pedicles, from the root. May. P. In woods in Lancaſhire, &c. *Ger.* 836. 1.

LYTHRUM. Calyx cylindrical, with twelve teeth. Petals ſix, inſerted in the calyx. Capſule bilocular, Seeds many.

1. Salicaria. *Purple-ſpiked Looſeſtrife*, or *Willow-herb.* Stem ſquare, firm, branched, two feet high. Leaves long, oppoſite, pointed, two or three at each joint. Flowers in whirls, on long ſpikes. July. P. On the banks of rivers. *Curt.* iii. 28.

Hyſſopifolium. Vide *Hexandria Digynia.*

II. DIGYNIA.

Piſtilla 2.

AGRIMONIA. Calyx with five teeth, ſurrounded by an exterior calyx. Petals five. Seeds two, in the bottom of the calyx.

1. Eupatoria. *Agrimony.* Stem erect, firm, hairy, about two feet high. Leaves pinnated, ſerrated, alternate, the odd one on a foot-ſtalk. Flowers yellow, large, on a long, ſlender, terminal ſpike. Fruit rough. June. P. Infields and hedges. *Curt.* V. 32.

III. TRIGYNIA.

Piſtilla 3.

RESEDA. Calyx of one leaf, divided. Petals irregular, jagged, ſome of them trifid. Capſule uniloculor, open between the ſtyles.

1. Lutea. *Baſe Rocket.* Stalks numerous, ſlender, between one and two feet high. Leaves trifid; the lower pinnated. Flowers ſmall, yellow, on ſpikes, terminal. Petals four or ſix. July. A. In fields, &c. on a chalky ſoil. *Ger.* 277. 1.

2. Luteola. *Wild Woad,* or *Dyers' Weed.* Stalks ſeveral, ſimple, about three feet high. Leaves launce-ſhaped, intire, with a denticle on each ſide of the baſe. Flowers ſmall, yellow, on long ſpikes. Calyx quadrifid.

quadrifid. Petals three or five; the upper one in ſix ſegments, the ſide ones in three. Stamina near twenty. June. A. On waſte ground frequent. *Ger.* 494.

EUPHORBIA. Calyx of one leaf, bellying, with four teeth. Corolla of four petals, alternate with the teeth of the calyx, thick, gibbous, truncated, their claws fixed in the margin of the calyx. Stamina jointed. Styles bifid. Capſule roundiſh, trilocular. Seeds ſingle.

1. Peplis. *Small Purple Sea Spurge.* Stem branched, procumbent, purpliſh. Leaves purpliſh, obtuſe, oval, intire. Flowers ſmall, yellow, in the alæ of the leaves. June. A. On the Corniſh coaſt. *Ger.* 503. 20. S. Brit.

* *Umbels trifid; partial umbels forked.*

2. Peplus. *Petty Spurge.* Stem much branched, eight or ten inches high. Leaves oval, intire, on pedicles. Flowers yellowiſh green. July. A. A common weed in gardens. *Curt.* i. 35.

3. Exigua. *Dwarf Spurge.* Stalks branched, procumbent, three or four inches long. Leaves narrow, erect; thoſe immediately under the umbels are broader and longer. Flowers yellow, ſmall. July. A. In corn-fields. *Curt.* iv. 36.

** *Umbels quinquifid; partial umbels forked.*

4. Segetalis. *Corn Spurge.* Stems numerous, erect. Leaves long, narrow, alternate; thoſe under the partial umbels broad, pointed. Flowers ſmall, yellow, on the

top of the ſtem, and on ſmall branches. Petals horned. July, Aug. A. In corn-fields.

5. Helioſcopia. *Sun Spurge.* Stem ſingle, about a foot high, branched at the top. Leaves narrow at the baſe, broad and round at the end. Flowers greeniſh yellow, terminal. July. A. In kitchen gardens frequent. *Curt.* i. 36.

6. Portlandica. *Portland Spurge.* Stem ſomewhat woody, ſmooth, reddiſh, ſix or eight inches high. Leaves alternate, almoſt ſeſſile, narrow, pointed, ſpreading. Involucella broad, pointed, concave. Flowers yellow; firſt and ſecond male, petals obtuſe; the reſt hermaphrodite, petals horned. Aug. A. On the ſea-coaſt. S. Brit.

7. Paralias. *Sea Spurge.* Stem about half a yard high, intirely covered with oblong pointed leaves, imbricated. Flowers yellowiſh green, in bifid, ſubquinquifid umbels. Involucella oval. July, Aug. P. On the coaſt frequent. *Ger.* 498. 1. S. Brit.

8. Verrucoſa. *Rough-fruited Spurge.* Leaves eliptical, ſomewhat hairy, and ſlightly ſerrated. Involucella heart-ſhaped. Capſules intirely covered with warts. Aug. B. In corn-fields. *H. ox. X.* 3. 3. S. Brit. rare.

9. Platyphyllos. *Broad-leaved Spurge.* Stem erect, ſmooth, a foot high. Leaves alternate, remote, launce-ſhaped, ſlightly ſerrated, ſeſſile, the lower ones on ſhort foot-ſtalks, and broader at the end. Petals yellowiſh green. Capſules covered with ſmaller

ſmaller warts than the laſt. Partial umbels bifid. Trifid umbels from the alæ of the leaves. July. A. In corn-fields, but rare. S. Brit.

*** *Umbels multifid.*

10. Hyberna. *Knotty-rooted Spurge.* Root tuberous. Stalks ſimple. Leaves numerous, ſhort, intire. Umbels ſexfid. Flowers yellowiſh. Capſules warty. July, Aug. In corn-fields. S. Brit. *Ger.* 500. 12.

11. Amygdaloides. *Wood Spurge.* Radical leaves long, obtuſe, downy on the under-ſide, in a ſpreading tuft; the other leaves elliptical. Stalks three feet high, with ſlender branches, and flowers on long pedicles, from the alæ of the leaves. Involucella round, perfoliate. Petals lunated. April. P. In corn-fields, &c. *Ger.* 500. 9. S. Brit.

12, Characias. *Red Spurge.* A ſhrub, four feet high, reddiſh. Leaves launce-ſhaped, reddiſh, downy on the under-ſide. Umbels ſmall, with numerous radii. General involucrum of many leaves. Involucella perfoliate, bifid. June. P. In woods, but rare. *Ger.* 499. 8. S. Brit.

IV. DODECAGYNIA.

Piſtilla 12.

SEMPERVIVUM. Calyx in twelve ſegments. Corolla of twelve petals. Capſules twelve. Seeds ſeveral.

1. Tectorum. *Houſe-leek.* Stalk about a foot high Radical leaves thick, oval, pointed, fringed, ſpreading in a roſe; thoſe on the ſtem imbricated, membranous. Flowers pale red, ſeſſile, on curved, terminal bunches. July. P. On the tops of houſes frequent. *Ger.* 510. 1.

CLASS XII.

ICOSANDRIA.

Calyx of one leaf, concave. Corolla fixed by its claws to the inſide of the Calyx. Stamina twenty or more.

I. MONOGYNIA.

Piſtillum 1.

PRUNUS. Calyx quinquifid. Petals five, regular, roundiſh, concave, ſpreading, large. Fruit a *drupa*, containing a ſtone with prominent ſutures.

1. Padus. *Wild Cluſter Cherry*, or *Bird's Cherry*. A tall ſhrub. Leaves oblong, ſerrated, deciduous, with two glands on the under ſide of the baſe. Flowers white, in large pendulous cluſters. Fruit black. In woods and hedges in the mountainous parts of the north of England. May, June. P. *Ger.* 1504. 9.

2. Ceraſus. *Black Cherry*. A ſmall tree. Leaves ſmooth, launce-ſhaped, conduplicate. Umbels ſub-ſeſſile. Stipulæ indented. Bracteæ trifid. May. P. In woods and hedges.

3. Avium. *Common wild Cherry*. A tree. Leaves launce-ſhaped, downy beneath. Umbels ſeſſile. Fruit red. April. P. In woods and hedges, perhaps a variety of the preceding.

4. Inſititia. *Black and white Bullace*. A ſpinous ſhrub. Leaves oval, pointed, downy, beneath.

neath. Flowers from the alæ of the leaves, on pedicles, two together. Fruit black or white. April. In hedges frequent.

5. Spinoſa. *Black Thorn*, or *Sloe*. A ſpinous ſhrub. Leaves launce-ſhaped, ſmooth. Flowers from the alæ of the leaves, on ſingle pedicles. March, April. In hedges. *Ger.* 1497. 5.

II. DIGYNIA.

Piſtilla 2.

CRATÆGUS. Calyx quinquifid. Corolla of five petals, regular. Stamina about twenty. Berry below the flower, fleſhy, with two ſeeds.

1. Aria. *White Beam Tree*. A tree ten or fifteen feet high. Leaves oval, irregularly ſerrated, downy beneath. Flowers in umbels. Fruit red, ſweet. May. In mountainous woods, &c.. *Ger.* 1327. 2.

2. Torminalis. *Wild Service Tree*. About ten or twelve feet high. Leaves ſeptangular, downy beneath, ſerrated. Flowers in umbels. Fruit brown, with white ſpots, downy. April. In woods and hedges. *Ger.* 1471. 2. S. Brit.

3. Oxyacantha *Hawthorn*, or *White Thorn*. A tall crooked ſhrub. Leaves ſmooth, numerous, irregularly divided and ſerrated. Flowers white, in a kind of umbel. May. In woods and hedges frequent. *Ger.* 1326. 1.

III. TRI-

III. TRIGYNIA.

Piſtilla 3.

SORBUS. Calyx quinquifid. Corolla of 5 petals. Berry below the flower, ſoft, containing 3 ſeeds.

1. Aucuparia. *Quicken-tree*, or *Mountain Aſh*. A tree not very tall. Bark brown, ſmooth. Leaves ſmooth, pinnated; pinnæ about 8 pair, with an odd one at the end, ſlightly ſerrated. Flowers white, in cloſe umbels. Fruit red. May. In woods and hedges. *Ger.* 1473.

2. Domeſtica. *True Service Tree*. A large tree. Leaves pinnated, downy on the under-ſide. Flowers in umbels. Fruit yellowiſh brown, like a ſmall pear. April, May. In the mountainous parts of Cornwall and Staffordſhire. S. Brit.

3. Hybrida. *Baſtard Service Tree*. Leaves angular, ſomewhat pinnated, downy on the under-ſide. May. On the walls of Caſtle Dinasbran. Denbighſhire. Mr. Waring.

IV. PENTAGYNIA.

Piſtilla 5.

MESPILUS. Calyx quinquifid. Petals 5. Berry below the flowers; ſeeds 5.

1. Germanica. *Medlar*. A tree not very tall. Leaves launce-ſhaped, ſomewhat oval, downy underneath, ſerrated at the apex, on very ſhort foot ſtalks. Flowers white, terminal, ſingle, ſeſſile. Fruit brown. May. In hedges about Minchiville.

PYRUS. Calyx quinquifid. Petals 5. Pomum below the flower, quinquelocular. Seeds ſeveral.

1. Communis. *Wild Pear Tree.* A tall ſpinous tree; branches erect. Leaves oblong, ſmooth, ſerrated. Fruit lengthened at the baſe. Apr. In woods and hedges. S. Brit.

2. Malus. *Crab Tree.* Branches diffuſe. Leaves ſerrated, oval. Flowers on ſeſſile umbels. Fruit round, hollow at the baſe. May. In woods and hedges.

SPIRÆA. Calyx quinquifid. Petals 5. Capſules bivalve. Seeds few, ſmall.

1. Filipendula. *Drop-wort.* Stem about two feet high, hollow, ſtriated, naked. Leaves pinnated, ſerrated. Flowers reddiſh-white, in bunches. July. P. In meadows, &c. *Ger.* 1058. 1.

2. Ulmaria. *Meadow-Sweet.* Stem about four feet high, branched, ſtriated. Leaves pinnated; terminal pinna large, lobed. Flowers white, in bunches, terminal. June, July. P. In wet meadows, and banks of rivers. *Ger.* 1043. 1.

V. POLYGYNIA.

Piſtilla many.

ROSA. Calyx urn-faſhioned, fleſhy, quinquifid; ſegments long, narrow. Petals five, inſerted in the neck of the calyx. Stamina and piſtilla very ſhort. Seeds numerous, downy, adhering to the inſide of the calyx. Shrubs.

1. Rubigi-

1. Rubiginoſa. *Sweet Briar*, or *Eglantine*. Firm, erect, ſpinous, the ſpines recurved. Leaves roundiſh, generally five together, ruſty on the underſide, and clammy at the ends. Flowers ſmall, pale. The whole plant ſmells like apples. May, June. *Ger.* 1269. 1. Eglanteria of Hudſon.

2. Villoſa. *Apple-Roſe*. Spinous. Leaves downy on both ſides, oval. Fruit ſpherical, large, ſpinous. Flowers deep red. June. In hedges on Mountains in the north.

3. Spinoſiſſima. *Burnet Roſe*. Stem firm but low, much branched, and very prickly. Leaves pinnated. Foot-ſtalks ſpinous. Flowers white. Fruit round and ſmooth. June. On heaths, &c. *Ger.* 1270. 4. *Eng. Bot. tab.* 187.

4. Canina. *Dog-Roſe*, or *Common Briar*. Stem eight or ten feet high, with hooked ſpines. Leaves five or ſeven together, oval, ſmooth. Flowers pale red, odoriferous. Fruit large, ſmooth, oval, red. May, June. In hedges. *Curt.* v. 34.

5. Alba. *White Dog-Roſe*. Differs from the laſt in being a leſs ſhrub, with rounder fruit, and white flowers. Arvenſis of Hudſon. *Eng. Bot. tab.* 188.

RUBUS. Calyx quinquifid. Petals five, inſerted in the calyx. Fruit a berry, compoſed of many ſmall ones, with a ſingle ſeed in each.

1. Idæus. *Raſpberry Buſh*. Stem ſlender, erect, about ſix feet high. Leaves ſomewhat oval, pointed, white and downy on the under-ſide, pinnated, five or three.

Flowers white. Fruit red. May, June. In woods, &c. *Ger.* 1272. 2.

2. Cæſius. *Small Bramble*, or *Dewberry-Buſh*. Stem ſlender, ſhort, prickly, procumbent. Leaves ternate. Flowers white, double. Fruit bluiſh. June, July. In woods and hedges.

3. Fruticoſus. *Common Bramble*. Stem long, creeping, ſpinous. Leaves 3 or 5, on a pedicle, ſerrated. Flowers white. Fruit black. May—October. In woods and hedges. *Ger.* 1272. 1.

4. Saxatilis. *Stone Bramble*. Stem herbaceous, ſlender, ſhort, creeping. Leaves ternate, not downy, notched round the edges, and ſhaped like thoſe of the elm. Flowers on ſhort pedicles. Fruit fine red, compoſed of few but larger berries. June. On the ſides of mountains in the northern counties. *Ger.* 1273. 4.

5. Chamæmorus. See *Claſs* XXII. ord. IX.

FRAGARIA. Calyx with 10 ſegments. Petals 5. Receptacle of the ſeed a ſucculent berry, deciduous. Seeds numerous, pointed. Leaves ternate.

1. Veſca. *Strawberry*. Stem ſhort, hairy, erect. Leaves broad, ſerrated, whitiſh beneath. Tendrils creeping. Flowers 6 or 8, large, white. May, June. P. In woods, &c.

2. Sterilis. *Barren Strawberry*. Stem weak, creeping. Flowers ſingle, white. Leaves oval, ſerrated, downy, white underneath. Apr. P. In barren paſtures frequent. *Ger.* 998. 3.

POTEN-

POTENTILLA. Calyx with 10 ſegments. Petals 5. Receptacle of the ſeed ſmall, dry, permanent. Seeds numerous, roundiſh.

* *Leaves pinnated.*

1. Fruticoſa. *Shrub Cinquefoil.* Stem erect, woody. branched. Leaves 5 or 7 on each foot-ſtalk, downy beneath. Flowers large, yellow. June. P. Yorkſh. *H. ox.* 23. S. Br. *Eng. Bot. tab.* 88.

2. Anſerina. *Silver-weed*, or *Wild Tanſey.* Stem creeping. Leaves ſerrated, ſilver-white beneath. Flowers yellow, on pedicles. June, July. P. *Curt.* iii. 31.

3. Rupeſtris. *Baſtard Cinquefoil.* Stem erect, 2 feet high, branched. Leaves alternate; pinnæ oval, indented, 5 or 7, hairy. Flowers numerous, large, white. July. P. Wales. *Ger.* 921. S. Brit.

** *Leaves 5-fingered.*

4. Argentea. *Silver-leaved Cinquefoil.* Stalks numerous, erect, hairy, ſix or eight inches high. Leaves ſerrated, ſilver-white beneath. Flowers yellow. June. P. In paſtures, &c. *Ger.* 988. *Eng. Bot. tab.* 89.

5. Verna. *Spring Cinquefoil.* Stem declining. Radical leaves 5-fingered, ſerrated, thoſe above ternate. Flowers yellow. May, Jun. P. In barren paſtures, &c. *Ger.* 988. 8.

6. Opaca. *Small rough Cinquefoil.* Stalks weak, branched, procumbent, hairy. Radical leaves 5-fingered, ſerrated. hairy. Flowers large, yellow. June. P. In Yorkſhire, but rare. *Ger.* 989. 9.

7. Rep

7. Reptans. *Common Cinquefoil.* Stem ſlender, creeping. Leaves oblong, ſerrated. Flowers yellow, ſingle. June. P. *Curt.* i. 37.

8. Alba. *White Cinquefoil.* Stem procumbent. Leaves ſerrated, and hollowed at the apex. Flowers ſingle, white. Receptacle hairy. Aug. P. In Wales.

TORMENTILLA. Calyx octifid. Petals 4. Stamina not more than 16. Seeds 6 or 8, oblong, naked, fixed to a ſmall dry receptacle.

1. Erecta. *Tormentil,* or *Septfoil.* Stem erect, branched, from 3 or 4 inches to a foot high. Leaves ſeſſile, generally in ſeven lobes, deeply divided, and ſerrated. Flowers ſmall, yellow; petals heart-ſhaped. June. P. In paſtures frequent. *Curt.* v. 35.

2. Reptans. *Creeping Tormentil.* Stalks reddiſh, ſlender, creeping. Leaves ſharply ſerrated, on ſhort foot-ſtalks, and 5-lobed. Flowers numerous, yellow. July. P. In woods and barren paſtures.

GEUM. Calyx with ten ſegments. Petals five, rounded. Receptacle of the ſeed oblong, hairy. Seeds numerous, with each a long jointed ſtyle.

1. Urbanum. *Common Avens,* or *Herb-bennet.* Stem erect, branched, two or three feet high. Leaves pinnated; the ſide pinnæ gradually increaſing in ſize as they approach that at the extremity, which is much larger, rounded, and acutely ſerrated. Flowers yellow, terminal, erect. Fruit roundiſh, hairy, the ſize of a nut.

June,

June, July. P. In woods and hedges. *Curt.* ii. 36.

2. Rivale. *Water Avens.* Stem about a foot high, branched at the top. Leaves like the laſt, but the extreme pinnæ trilobed. Flowers numerous, purple, drooping; petals rolled up cylindrically. Fruit oblong. Style of the ſeed downy. July. P. On the northern and Welch mountains. *Ger.* 995. 4. *Eng. Bot. tab.* 106.

DRYAS. Calyx with five or eight ſegments, linear, obtuſe. Petals five or eight, notched, ſpreading. Seeds numerous, with each a long downy ſtyle.

1. Octopetala. *Mountain Avens.* Stem ſomewhat woody, about ſix inches long. Leaves ſimple, oval, harſh, ſerrated, hoary beneath. Flowers ſingle, large, white, on hairy pedicles. July. On the mountains in Ireland, Scotland and Yorkſhire. *Ger.* 659. 6.

COMARUM. Calyx in ten ſegments, coloured, large. Petals five, much ſhorter than the calyx, pointed. Stamina about twenty. Receptacle ſpongy, permanent. Seeds numerous, pointed, covering the receptacle.

1. Paluſtre. *Purple Marſh Cinquefoil.* Stem partly procumbent; the part which is erect, is about one foot and a half high. Leaves pinnated. Flowers ſingle, terminal, large, purple; petals ſmall. June. P. On bogs, &c. *Eng. Bot. tab.* 172.

CLASS

CLASS XIII.

POLYANDRIA.

Stamina numerous: but wanting the other characteriſtics of the preceding Claſs. Stamina on the receptaculum.

I. MONOGYNIA.

Piſtillum 1.

NYMPHÆA. Calyx of 4 or 5 leaves, large. Petals many. Style 0. Berry hard, multilocular, truncated, filled with pulp.

1. Lutea. *Yellow Water Lily.* Root very thick and long. Leaves large, heart-ſhaped, ſingle, on long foot-ſtalks, floating on the ſurface of the water. Flowers yellow, ſingle, on long pedicles, floating; calyx of 5 leaves. Aug. P. In ſlow rivers, pools, &c. *Ger.* 819. 2. *Eng. Bot. tab.* 159.

2. Alba. *White Water Lily.* Flowers white; calyx quadrifid: otherwiſe much like the laſt. July. In rivers, ponds, &c. *Ger.* 819. 1. *Eng. Bot. tab.* 160.

* *Petals* 4.

ACTÆA. Calyx of 4 leaves, deciduous. Petals pointed at each end, deciduous. Style 0. Berry unilocular, ſmooth. Seeds ſemilunar, in a double row.

1. Spicata. *Herb Chriſtopher*, or *Bane-berries.* Stem about 2 feet high, ſlender, jointed, ſtriated.

ated. Leaves large, gloſſy, ternate, and ſubdivided, like thoſe of the umbelliferous plants. Flowers ſmall, white, in oval cluſters. Berries ſmall, black. May, June. P. In woods. *Ger.* 979. S. Brit.

CHELIDONIUM. Calyx of 2 leaves, obtuſe, deciduous. Petals three, large, roundiſh, ſpreading. Stamina about 30. Style 0; ſtigma bifid. Fruit a cylindrical pod. Seeds many.

1. Majus. *Celandine.* Stem weak, about 2 feet high. Leaves pinnated, ſubdivided, lobed, indented. Flowers ſmall, on ſeparate pedicles, in umbels. The whole plant contains a yellow juice. May. June. P. On waſte ground. *Ger.* 1069. 1.

2. Glaucium. *Yellow-horned Poppy.* Stem about 2 feet high, ſmooth. Leaves downy, ſeſſile, embracing the ſtem, blue-green; thoſe from the root pinnated, the reſt lobed. Flowers yellow, large, ſingle, terminal. July. A. On the coaſt. *Ger.* 367. 1. *Eng. Bot. tab.* 8.

3. Hybridum. *Violet-horned Poppy.* Stem about a foot high, ſmooth, erect. Leaves pinnated, ſeſſile; ſegments very narrow. Flowers ſingle, large, terminal, purple. Pods trivalve. Aug. A. In corn-fields. *Ger.* 367. 4. *Eng. Bot. tab.* 43.

4. Corniculatum. *Orange-horned Poppy.* Peduncles unifloral. Leaves ſeſſile, pinnatifid. Stem rough, forked, branched, furrowed. July, Aug. A. *Ger.* 367. 2.

PAPAVER. Calyx of 2 leaves, obtuſe, deciduous. Petals large, roundiſh, ſpreading, alternately leſs. Style 0; ſtigma radiated.

radiated. Capſule unilocular. Seeds numerous, ſmall.

1. Hybridum. *Round rough-headed Poppy.* Capſules roundiſh, rough with protuberances. Stalks above a foot high, hairy, branched, with many leaves, which are triply pinnatifid. Flowers, not large, red. June, July. A. In corn-fields, but rare. *Ger.* 373. 1. S. Brit.

2. Argemone. *Long rough-headed Poppy.* Differs from the laſt chiefly in the ſhape of the pericarpium, or ſeed-veſſel, which is long, angular, and thickeſt towards the top. Jun. A. In corn-fields. *Curt.* v. 38.

3. Rhoeas. *Round ſmooth-headed,* or *Corn Poppy.* Stem hairy, branched. Leaves pinnatifid, jagged. Flowers red. Capſule round, ſmooth, ſmall. June. A. In corn-fields. *Curt.* iii. 32.

4. Dubium. *Long ſmooth-headed Poppy.* Differs from the laſt, chiefly in the ſhape of the capſule. June, July. A. *Curt.* v. 37.

5. Somniferum. *White Poppy.* Stem erect, ſmooth, branched, 3 or 4 feet high. Leaves bluiſh, ſmooth, ſimple, broad, irregularly indented, ſeſſile, embracing the ſtem. Flowers white, with a purpliſh tinge. Capſule large, round, ſmooth. Seeds white. July. A. In waſte ground. *Ger.* 369. 1. 2. S. Brit.

6. Cambricum. *Yellow Poppy.* Stem ſmooth, branched. Leaves pinnated, jagged. Flowers yellow. Capſule oblong, ſmooth. Stigmata 5 to 6. June—Aug. P. In Wales, Weſtmoreland, &c. *Park.* 369. 4. S. Brit. *Eng. Bot. tab.* 66.

** *Petals*

** *Petals five.*

TILIA. Calyx of 5 ſegments, coloured, deciduous. Petals obtuſe, notched. Stamina 30 or more. Berry round, dry, quinquelocular, quinquevalve, opening at the baſe. Seeds ſingle.

1. Europæa. *Lime-tree.* A large tall tree. Leaves heart-ſhaped, ſerrated. Flowers white, odoriferous, deſtitute of a nectarium. July. In woods and hedges. *Ger.* 1483. 1.

CISTUS. Calyx of 5 leaves, 2 of which are leſs than the reſt. Petals roundiſh, large, ſpreading. Capſules three cornered with 3 valves.

1. Anglicus. *Hoary Dwarf Ciſtus.* Stems woody, numerous, 3 or 4 inches long, procumbent. Leaves oppoſite, oblong, pointed, hoary beneath. Flowers large, yellow, in cluſters. July. P In the north of England. S. Brit. Hirſutus of Hudſon.

2. Guttatus. *Annual Ciſtus.* Stem herbaceous, about a foot high, branched at the top. Leaves oppoſite, launce-ſhaped, with 3 nerves. Flowers pale yellow, with a red ſpot on each petal. Stipulæ •. June. A. In ſandy meadows. *Ger.* 1281. S. Brit.

* *With Stipulæ.*

3. Surrejanus. *Narrow-leaved Ciſtus.* Stems numerous, woody, procumbent, Leaves oppoſite, oblong, ſomewhat hairy. Flowers yellow, with narrow petals. July. On heaths, particularly in Surry. P. S. Brit.

4. Helianthemum. *Dwarf Ciſtus,* or *little Sunflower.* Stems numerous, woody, procumbent, about a foot long. Leaves op-

poſite, oblong, curled, ſlightly hairy. Stipulæ quatern. Flowers yellow, ſingle, 3 or 4 in a looſe cluſter; petals intire. Jul. On chalk hills. *Curt.* v. 36.

5. Polifolius. *Mountain Dwarf Ciſtus.* Stems numerous, woody, procumbent. Leaves very numerous, thick, oblong, ſeſſile, downy. Flowers white. July P. On Brent-downs, Somerſetſh. St. Brit.

6. Salicifolius. *Willow-leaved Ciſtus.* Herbaceous, ſpreading, woolly. Flowers in bunches, erect. Pedicles horizontal. Capſules longer than the calyx. June, July. A. *Ger.* 1280. 17. S. Brit.

II. TRIGYNIA.

Piſtilla 3.

DELPHINIUM. Calyx 0. Petals 5, unequal. Nectarium bifid, involved in the tube of the horned petal.

1. Conſolida. *Wild Larkſpur.* Stem about 6 inches long, ſubdivided. Leaves in narrow ſegments. Flowers in looſe ſpikes, blue. Capſule 1. June. A. In corn-fields. *Ger.* 1083. 5. S. Brit.

III. PENTAGYNIA.

Piſtilla 5.

AQUILEGIA. Calyx 0. Petals 5, equal. Nectaria 5, between the petals, with each a poſterior horn or tail, obtuſe. Stamina 30 or more. Capſules 5, univalve. Seeds ſeveral.

1. Vulgaris. *Columbine.* Stem erect, branched at the top. Leaves bluiſh. ſubdivided, lobed, on foot-ſtalks. Flowers large, blue, pendulous. Nectaria curved. June. P. In woods, &c. *Ger.* 1093. 1.

2. Alpina. *Mountain Columbine.* Leaves biternate, jagged. Flowers blue, large; petal of the nectarium long, launce-ſhaped; horn ſhort, ſtraight. Jun. P. In mountainous woods in Weſtmoreland, &c. S. Brit.

IV. HEXAGYNIA.

Piſtilla 6.

STRATIOTES. Spatha of two leaves. Perianthium trifid. Petals 3. Berry ſexlocular, below the flower.

1. Aloides. *Water Aloe,* or *Freſh-water Soldier.* Root conſiſts of long fibres tufted at the ends. Leaves thick, ſword ſhaped, triangular, pointed, prickly at the edges. Flowers white, floating on the water. June. P. Slow rivers, fens, &c. *Ger.* 825.

V. POLYGYNIA.

Piſtilla many.

ANEMONE. Calyx 0. Petals in a double or triple order, 3 in each. Seeds numerous.

1. Pulſatilla. *Paſque Flower.* Stalk hollow, hairy, 8 or 10 inches high, with a jagged involucrum at ſome diſtance below the flower. Leaves bipinnated. Flowers large, purple, ſingle. Apr. P. In high ground. *Ger.* 385. 1. S. Brit. *Eng. Bot. tab.* 51.

2. Nemoroſa. *Wood Anemone.* Stem about 7 inches high, with three leaves, in many ſegments, at ſome diſtance from the flower. Radical leaves on long foot-ſtalks, and divided like thoſe above. Flower ſingle, white, frequently with a red tinge. Apr. In woods, &c. *Curt.* ii. 38.

3. Apennina. *Mountain Wood Anemone.* Differs from the laſt chiefly in the petals being purple, numerous, and launce-ſhaped. April. P. In woods, &c.

4. Ranunculoides. *Yellow Anemone.* Seeds ſharp. Little leaves jagged. Petals roundiſh. Generally two flowers on each ſtalk. May. P. In woods and hedges, but rare.

CLEMATIS. Calyx o. Petals 4. Receptacle round, ſmall. Seeds ſeveral, with each a ſtyle.

1. Vitaiba. *Great Wild Climber*, or *Traveller's Joy.* Stem woody, climbing,, and twiſting round every thing in its way. Leaves oppoſite, pinnated; pinnæ oval, ſerrated. Flowers white, ſmall, in tufts, fragrant. July. P. In hedges. *Curt.* iv, 37. S. Brit.

THALICTRUM. Calyx o. Petals 4. Seeds ſeveral, without ſtyle.

1. Alpinum. *Mountain Meadow Rue.* Stem weak, ſimple, naked, about a foot high. Leaves tridentate, acute, gloſſy, dark green above. Flowers drooping, terminal, deep, red, in looſe cluſters. June. P. In moiſt ground on mountains. Stamina 12. Piſtilla 8. *Lightf.* xiii. *p.* 286.

2. Minus.

Minus. *Leſs Meadow Rue.* Stem leafy, bluiſh, ſimple, about a foot high, erect. Leaves ſexpartite, large, the ends tinged with purple. Flowers yellowiſh white, in looſe pendulous cluſters. July, Aug. P. On moiſt mountains, &c. *Ger.* 1251. 2. *Eng. Bot. tab.* 11.

3. Flavum. *Meadow Rue.* Stem leafy, erect, furrowed, purpliſh, about 3 feet high. Root yellow. Leaves large, dark, bluiſh green above, ſubdivided, notched. Flowers ſmall, whitiſh, in ſhort ſpikes, or cluſters. June. P. In moiſt ground, banks of rivers, &c. *Ger.* 1251. 1.

ADONIS. Calyx of 5 leaves, hollow, obtuſe, deciduous. Petals, 5 to 15, oblong, obtuſe, gloſſy. Nectarium 0, Stamina very ſhort. Styles 0. Seeds numerous, naked.

1. Autumnalis. *Adonis, Pheaſant's Eye, red Maithes,* or *red Morocco.* Stem firm, erect, branched, about 1 ½ foot high. Leaves in narrow ſegments, on foot ſtalks. Flowers ſcarlet; petals 8. July, Auguſt. A. In corn-fields. *Curt.* ii. 37. S. Brit.

RANUNCULUS. Calyx of 5 leaves (except ſp. 4). Petals 5 (except ſp. 4); nectarium a cavity or pore in each petal, above the claw. Styles 0. Seeds ſeveral. The nectarium is the eſſential characteriſtic of this genus, the other parts of fructification being uncertain.

* *Leaves ſimple.*

1. Flammula. *Leſs Spearwort.* Stem leaning. Leaves launce-ſhaped, broad, on foot-

ſtalks. Flowers deep yellow. June—Sept. P. Fens, &c. frequent. *Ger.* 961. 2.

2. Lingua. *Spearwort.* Stem 3 feet high, erect, hollow, branched. Leaves ſeſſile, thick, ſmooth, pointed, a foot long, and about an inch broad. Flowers large, terminal, deep yellow. May, June. P. In wet paſtures, &c. *Ger.* 961. 1. *Eng. Bot. tab.* 100.

3. Ficaria. *Pilewort,* or *Leſs Calendine.* Calyx generally of three leaves. Petals launce-ſhaped, commonly eight. Nectarium ſhut by a ſcale. Stamina from eighteen to 36. Stem ſhort, procumbent. Leaves heart ſhaped, angulated, on foot ſtalks. Flowers yellow. March, April. P. In meadows, &c. frequent. *Ger.* 816. Ficaria verna Hudſon.

4. Reptans. *Narrow-leaved creeping Spearwort.* Leaves linear. Stem creeping. *Lightf. frontiſpiece, Vol.* I. Conſidered by many as a variety of the *R. flammula.*

** *Leaves divided.*

5. Auricomus. *Sweet Wood Crowfoot,* or *Goldilocks.* Radical leaves reniform, notched, divided; thoſe on the ſtem deeply divided into narrow ſegments. Flowers numerous, yellow. April. P. In woods and hedges frequent. *Curt.* ii. 41.

6. Sceleratus. *Round leaved Water Crowfoot.* Stem about a foot and a half high, branched. Lower leaves divided into broad ſegments, the upper into narrow. Leaves ſmooth. Flowers ſmall, yellow. May, June. A. In water frequent. *Curt.* ii. 42.

7. Bulboſus.

7. Bulboſus. *Bulboſe Crowfoot* or *Butter Cups.* Stem erect. Leaves compoſite. Pedicles of the flowers grooved. Calyx curved downwards. Root a round bulb. May. P. In meadows frequent. *Curt.* i. 38.

8. Hirſutus. *Hairy R.* CURT. Root fibrous. Stem and leaves hairy; hairs on the latter from projecting points. Flowers pale yellow. Leaves yellowiſh green. June—Sept. A. *Curt.* ii. 40. S. Brit.

9. Repens. *Creeping Crowfoot.* Stems creeping. Leaves dead green, and often ſpotted, compoſite, ternate, ſomewhat hairy. Flowers numerous. Calyx ſpreading, and pedicles grooved. May. P. In meadows, &c. frequent. *Curt.* iv. 3.

10. Acris. *Upright Meadow Crowfoot.* Stem erect. Leaves pentangular, tripartite, multifid, acrid. Flowers numerous, on equal branches. Calyx ſpreading; pedicles cylindrical. June, July. P. In meadows, &c. frequent. *Curt.* i. 38.

11. Arvenſis, *Corn Crowfoot.* Stem erect, about 1½ foot high. Upper leaves decompoſite; ſegments narrow. Flowers ſmall, pale, yellow. Stamina about 16. Seeds prickly, about 8. June. A. In corn-fields. *Ger.* 951. 3. *Eng. Bot. tab.* 135.

12. Parviflorus. *Small-flowerd Crowfoot.* Stem weak, proſtrate, diffuſe, hairy. Leaves ſimple, deeply divided, acute, hairy. Flowers very ſmall. Seeds covered with ſharp points. May. A. In meadows, corn-fields, &c. *Ray* 12. 1. S. Brit.

13. Hederaceus.

13. Hederaceus. *Ivy-leaved Water Crowfoot.* Stem diffuſe, weak, jointed, creeping. Leaves roundiſh, trilobed, intire, with, generally, a black ſpot in the centre, floating. Flowers white, or pale yellow. May, July. P. In ſlow rivers, ditches, &c. *Curt.* iv. 39.

14. Aquatilis. *Various-leaved Water Crowfoot.* Stem branched, jointed, thick, weak. Leaves under water, divided into very narrow ſegments; thoſe on the ſurface roundiſh, trilobed, notched, on foot-ſtalks. Flowers large, ſingle, white, on pedicles from the ſame vagina with the leaf. April, May. P. In ditches, &c. *Ger.* 829. 1. *Eng. Bot. tab.* 101.

TROLLIUS. Calyx 0. Petals about 14. Nectaria 9, linear, perforated at the baſe. Styles 0. Pods numerous, in a round head. Seeds ſingle.

1. Europæus. *Globe-flower*, or *Locker-gowlans.* Stem ſimple, taper, about 2 feet high. Leaves lobed, divided; ſegments acute. Flowers ſingle, terminal, large, globoſe, yellow. Nectaria the length of the Stamina. Seeds black, gloſſy. June. P. *Ger.* 955. 12. *Eng. Bot. tab.* 28.

HELLEBORUS. Calyx 0. Petals 5, oval, equal, ſpreading, Nectaria ſeveral, in a circle, tubular, with 2 lips. Capſule compreſſed, double-ridged. Seeds ſeveral.

1. Viridis. *Small Wild black Hellebore.* Stems ſeveral, leafy, erect, about a foot high. Leaves fingered. Flowers terminal, numerous, large, green. Mar. Apr. P. In woods, &c. but rare. *Ger.* 976. 2.

2. Foetidus.

2. Foetidus. *Great Baſtard black Hellebore, Bear's-foot*, or *Setterwort*. Stem about 3 feet high, leafy. Leaves trilobed; lateral lobes quadrifid, dry, gloſſy, ſerrated, narrow, pointed. Flowers numerous, on pedicles, in a kind of umbel. March, Apr. P. In fields and hedges frequent. *Ger.* 976. 4. S. Brit.

CALTHA Calyx 0. Petals 5, oval, ſpreading, large, deciduous. Styles 0. Nectaria 0. Capſules ſeveral, ſhort, pointed, double ridged. Seeds ſeveral.

1. Paluſtris. *Marſh Marigold.* Stalk erect, about 2 feet high. Leaves ſingle, heart-ſhaped, notched round the edges; thoſe from the root on long, thick foot-ſtalks. Flowers large, yellow. April. P. Banks of rivers, &c. *Curt.* i. 40.

CLASS

CLASS XIV.

DIDYNAMIA.

Stamina four, two long, and two ſhort. Piſtillum one. Corolla monopetalous, irregular, generally ringent.

I. GYMNOSPERMIA.

Seeds four, naked. Stem ſquare. Leaves oppoſite.

VERBENA. Calyx of one leaf, angular, linear, 5-dentate, one of them truncated. Corolla monopetalous, tubular, irregular, with five ſlight ſegments in the rim.

1. Officinalis. *Vervain.* Spikes filiform, paniculate. Leaves with many clefts. Stem ſingle. Waſte ground. Aug. A. *Curt.* i. 41.

* *Calyx quinquifid.*

AJUGA. Corolla ringent; upper lip ſmall, erect, bifid; under lip large, trifid, middle ſegment large. Stamina longer than the upper lip. Stigmata two.

1. Pyramidalis. *Mountain Bugle,* or *Sicklewort.* Stalks ſlender, erect, ſquare, hairy, ſimple, a foot or more high. Leaves oppoſite, narrow at the baſe, deeply indented.

dented. Flowers blue, or red, or white, in ſpikes. June. B. In Wales, &c.

2. Reptans. *Bugle.* Stem ſingle, ſimple, ſquare, about eight inches high. Shoots creeping. Leaves oppoſite, oval, ſomewhat hairy, notched. Flowers blue, red, or white, in long leafy ſpikes. May, July, P. In meadows, and on hills. *Curt.* ii. 43.

TEUCRIUM. Corolla ringent; upper lip erect, acute, deeply divided, ſegments diſtant from each other; under lip trifid. Stamina prominent, between the ſegments of the upper lip. Stigmata two.

1. Chamæpitys. *Ground Pine.* Stem diffuſe, covered with leaves, about five or ſix inches high. Leaves narrow, trifid, intire. Flowers ſeſſile, ſmall, yellow in the alæ of the leaves. June, July. A. Corn-fields, &c. *Ger.* 525, 1. S. Brit. *Eng. Bot. tab.* 77.

2. Scorodonia. *Wood Sage.* Stem erect, ſquare, about two feet high. Leaves oppoſite, heart-ſhaped, ſerrated, on foot ſtalks. Flowers greeniſh white, in unilateral ſpikes. July. P. Woods, heaths, &c. *Curt.* v. 40.

3. Scordium. *Water Germander.* Stem diffuſe, weak, ſquare, hairy. Leaves oppoſite, ſeſſile, oblong, ſerrated. Flowers red, two together, in the alæ of the leaves. July. Auguſt. P. On wet ground. *Ger.* 534. 1. S. Brit.

4. Chamædrys. *Germander.* Stem procumbent, ſquare. Leaves oppoſite, indented, notched,

notched, on foot ſtalks. Flowers red, three together, in the alæ of the leaves. June. July. P. In the ruins of Winchelſea caſtle, &c. *Ger.* 656. 1. S. Brit.

NEPETA. Middle ſegment of the under lip of the corolla notched. Palate heart-ſhaped. Stamina approximate. Stigma bifid.

1. Cataria. *Cat Mint*, or *Nep.* Stalks firm, erect, ſquare, branched, hoary, near three feet high. Leaves broad, heart-ſhaped, hoary, oppoſite, ſerrated, on foot-ſtalks. Flowers purpliſh white, in longiſh cluſters, terminal. July. P. In hedges. *Ger.* 682. 1. *Eng. Bot. tab.* 137.

MENTHA. Corolla quadrifid, nearly equal; broader ſegment notched. Stamina erect, diſtant. Stem ſquare. Leaves oppoſite.

1. Sylveſtris. *Long-leaved Horſe Mint.* Stem firm, erect, branched. Leaves ſeſſile, hoary, ſerrated. Flowers reddiſh white, in cloſe ſpikes, terminal. Stamina longer than the corolla. Jul. Aug. P. On wet ground. *Ger.* 684. 3. S. Brit.

2. Viridis. *Spear Mint.* Stem erect, about two feet high. Leaves ſmooth, ſeſſile, launce-ſhaped, ſerrated, freſh green. Flowers ſmall, red, in long interrupted ſpikes. Stamina longer than the corolla. July, Auguſt. P. On the banks of rivers, in Eſſex, Kent, &c. *Ger.* 680. 3. S. Brit.

3. Rotundifolia. *Round-leaved Horſe Mint.* Stem erect, about two feet high. Leaves ſeſſile,

ſeſſile, roundiſh, wrinkled, notched. Flowers red, in oblong ſpikes, terminal. On wet ground, but rare. Aug. P. S. Brit.

4. Aquatica. *Water Mint.* Stem erect, about two feet high. Leaves oval, pointed, ſerrated, on foot ſtalks. Flowers pale red, in round ſpikes, terminal. Stamina longer than the corolla. July. P. Banks of rivers, &c. *Ger.* 684. 1.

5. Piperita. *Pepper Mint.* Stem erect, two or three feet high, but little branched. Leaves ovato-oblong, ſerrated, on ſhort foot-ſtalks. Flowers red, in ſhort thick ſpikes, terminal. Stamina ſhorter than the corolla. Aug. P. Banks of rivulets, &c. S. Brit.

6. Sativa. *Curled Mint.* Stems numerous, chiefly procumbent, about a foot long. Leaves oval, ſerrated, often curled at the edges. Flowers purple, in whirls, at the joints. Stamina longer than the corolla. July, Aug. P. Banks of rivers, &c. *Ger.* 680. 1.

7. Gentilis. *Red Mint.* Stem erect, about two feet high. Leaves oval, acute, ſerrated, often red, on ſhort foot-ſtalks. Flowers pale red, in whirls, with the upper leaves. Stamina ſhorter than the corolla; under ſegment acute. Jul. Aug. P. On wet ground. *Ger.* 680. 4.

8. Arvenſis. *Corn Mint.* Stem procumbent, diffuſe, about a foot long, hairy. Leaves oval, acute, ſerrated, on ſhort foot-ſtalks. Flowers pale red, in whirls, at the joints. Stamina the length of the corolla; under ſegment obtuſe. July, Sept. P. *Ger.* 684. 2.

9. Exigua.

9. Exigua. *Smooth Mint.* Stem procumbent, diffuſe, about ſeven inches long, ſmooth Leaves ſmall, ſmooth, oblong, intire, on ſhort foot ſtalks. Flowers purpliſh, in whirls. Aug. P. Banks of rivulets, &c.

10. Pulegium. *Pennyroyal.* Stalks numerous, weak, procumbent, about one foot and a half long, ſubcylindrical, creeping. Leaves oval, obtuſe, ſlightly notched round the edges. Flowers purpliſh, in thick whirls. Stamina longer than the corolla. P. Aug. Sept. On wet ground.

11. Villoſa. *Woolly Mint.* HUDS. I take it to be a variety of the *Viridis*. Stamina ſhorter than the corolla.

12. Hirſuta. *Hairy Mint.* HUDS. A variety of the *Aquatica*, than which its leaves are rather more hairy and more ſeſſile.

GLECOMA. Antheræ in pairs, cruciform. Corolla ringent. Stigma bifid.

1. Hederacea. *Ground Ivy.* Stem ſquare, procumbent, creeping. Leaves reniform, notched, hairy. Flowers blue, in half whirls, in the alæ of the leaves. May. P. In hedges, &c. *Curt.* ii. 44.

LAMIUM. Calyx bearded. Corolla ringent; upper lip intire, arched; under lip of two lobes. Mouth dentated at each ſide.

1. Album. *White dead Nettle*, or *Archangel.* Stem ſimple, ſquare, about two feet high. Leaves heart-ſhaped, ſerrated, pointed, oppoſite, on foot-ſtalks. Flowers white, in whirls at the joints. May. June. P. Hedges, &c. *Curt.* ii. 45.

2. Purpureum.

2. Purpureum. *Red Archangel*, or *Dead Nettle*. Stem ſquare, partly procumbent, eight or ten inches high. Leaves heart-ſhaped, roundiſh, oppoſite, on foot-ſtalks. Flowers red, ſmall, in the alæ of the upper leaves. May. A. Corn-fields, gardens, &c. *Curt.* i. 42.

3. Amplexicaule. *Great Henbit*. Stalks ſquare, procumbent, about eight inches long. Upper leaves ſeſſile, ſurrounding the ſtem, obtuſe; lower leaves waved round the edges, on foot-ſtalks. Flowers red, in the alæ of the leaves. June. A. In corn-fields. *Curt.* ii. 46.

GALEOPSIS. Calyx ſharp-bearded. Corolla ringent; the upper lip arched, notched; under lip bidentate.

1. Ladanum. *Narrow-leaved Allheal*. Stem ſquare, purpliſh, about a foot high. Leaves oppoſite, narrow, ſerrated. Flowers red, in diſtant whirls. Jun. Aug. A. In corn-fields, &c. S. Brit.

2. Tetrahit. *Nettle-hemp*, or *Hemp-leaved Dead Nettle*. Stem firm, erect, ſquare, branched, hairy, ſwollen below the joints. Leaves oblong, pointed, ſerrated, harſh, nervous. Flowers large, white, or purple and yellow, in thick whirls. Calyx ſpinous, and much leſs than the corolla. Jun. Aug. A. Corn-fields, &c. *Ger.* 709. 2.

3. Galeobdolon. *Yellow Nettle-hemp*. Stem leaning, ſquare. Leaves oval, ſerrated, acute. Flowers yellow, ſix or twelve in each whirl; involucrum of four leaves.

May. P. In woods, hedges, &c. *Curt.* iv. 40. By Hudſon made a diſtinct genus.

4. Villoſa. *Hairy dead nettle.* Diſtance between the joints of the ſtem nearly equal. Whirls remote. Leaves launce-ſhaped, ſerrated, woolly. July, Auguſt. A. Cornfields, in a light ſoil.

BETONICA. Calyx bearded. Corolla, with the upper lip roundiſh, intire, plane, erect; under lip trifid; tube filiform. Stamina no longer than the mouth.

1. Officinalis. *Wood Betony.* Stems numerous, ſimple, erect, ſquare, one foot and a half high. Radical leaves numerous, long, obtuſe, on foot-ſtalks, upper leaves ſeſſile, heart-ſhaped, hairy. Flowers purple, in half-whirls, forming a kind of ſpike. Middle ſegment of the corolla notched. Jul. Aug. P. Woods, &c. *Curt.* iii. 33.

STACHYS. Calyx pungent. Upper lip of the corolla arched; lower lip large, reflex, notched. Stamina, after ſhedding the farina, bent towards the ſides.

1. Sylvatica. *Hedge-nettle.* Stem erect, ſquare, branched, hairy, about three feet high. Leaves hairy, heart-ſhaped, ſoft, on long foot-ſtalks. Flowers deep purple, with white ſpots, ſix or eight in a whirl, forming ſpikes, with intermediate ſmall leaves. Jul. Aug. P. In woods, hedges, &c. *Curt.* iii. 34.

2. Paluſtris. *Clown's Allheal.* Stem erect, branched at the bottom, two or three feet high. Leaves ſeſſile, in part ſurrounding the ſtem,

ſtem, narrow, pointed, indented, ſoft, hairy. Flowers purple, in whirls of ſix or more, forming a ſpike, with intermediate ſmall leaves. Aug. P. Banks of rivers, &c. *Curt.* iii. 35.

3. Germanica. *Baſe Horehound.* Stem erect, about two feet high, downy. Leaves thick, wrinkled, downy, white, indented. Flowers numerous, in whirls, white, purpliſh within. July. P. In hedges, &c. *Ger.* 695. 2. S. Brit.

4. Arvenſis. *Corn Stachys.* Whirls of ſix flowers. Stem weak, ſquare, hairy. Leaves obtuſe, a little naked. Corolla pale red, ſcarce longer than the calyx. *Curt.* iv. 41. June, Auguſt. A.

BALLOTA. Calyx cup-faſhioned, pentangular, quinquedentate, ſpinous, with ten ſtriæ. Upper lip of the corolla concave, oval, notched.

1. Nigra. *Stinking Horehound.* Stems erect, ſquare, about three feet high. Leaves dark green, heart ſhaped, ſerrated, on foot ſtalks. Flowers purpliſh, in whirls, in the alæ of the leaves. July. P. On waſte ground. *Ger.* 701. 1. *Eng. Bot. tab.* 46.

MARRUBIUM. Calyx funnel-ſhaped, rigid, with ten ſtriæ, and ten teeth alternately leſs. Upper lip of the corolla erect, bifid, linear; under lip reflex.

1. Vulgare. *White Horehound.* Stems ſeveral, firm, erect, branched, one foot and a half high. Leaves roundiſh, pointed, indented, woolly, meally. Flowers white, in thick whirls, in the alæ of the

leaves; teeth of the calyx hooked. July. P. On waſte ground, &c. *Ger.* 561. 1.

LEONURUS. Calyx tubular, pentagonal, quinquedentate, unequal. Upper lip of the corolla concave, ſemicylindrical, intire, downy; under lip reflex; antheræ ſprinkled with minute gloſſy glandules.

1. Cardiaca. *Motherwort.* Stem erect, about four feet high, with many long upright branches. Leaves on foot ſtalks, divided into three principal lobes, ſerrated. Flowers purpliſh, in thick divided whirls. July. B. High roads, &c. *Ger.* 705.

** *Calyx bilabiate.*

CLINOPODIUM. Involucrum of many narrow leaves, like hairs, beneath each whirl. Upper lip of the calyx trifid, acute, reflex; under lip bifid. Stigma ſimple, acute, compreſſed.

1. Vulgare. *Great Wild Baſil.* Stem erect, hairy, about two feet high. Leaves on foot ſtalks, hairy, oval, pointed. Flowers purple, in thick whirls, at the joints. July. P. Hedges, &c. *Ger.* 675. 2.

ORIGANUM. Involucrum a ſquare imbricated cone, collecting the calyces, which are various. Corolla ringent.

1. Vulgare. *Wild Marjoram.* Stems erect, about two feet high. Leaves on ſhort foot-ſtalks, oval, pointed, dark green. Spikes roundiſh, purpliſh, in irregular panicles; bracteæ oval, longer than the calyx. July. P. Hedges, &c. *Curt.* v. 39.

2. Onites.

2. Onites. *Pot-Marjoram.* Spikes oblong, aggregate, hairy. Leaves heart-ſhaped, downy. Stems numerous, diffuſe, about a foot high. Flowers reddiſh white Aug. P. In dry paſtures. *Ger.* 664. 2. S. Brit.

THYMUS. Mouth of the calyx cloſed with hairs.

1. Serpyllum. *Mother of Thyme, Lemon Thyme, Hoary Thyme.* Stalks branched, procumbent, diffuſe. Leaves obtuſe, hairy at the baſe. Flowers pale red, in round heads, terminal. July, Aug. P. On hills, frequent. *Curt.* ii, 47. There are ſeveral varieties of this ſpecies.

2. Acinos. *Wild Baſil.* Stems erect, branched. Leaves pointed, ſerrated. Flowers purple, in whirls, on ſingle foot-ſtalks. July, Aug. A. On hills, frequent. *Curt.* i. 43.

MELISSA. Calyx angular, ſtriated; upper lip tridentate, reflex. Upper lip of the corolla erect, arched, notched.

1. Calamintha. *Common Calamint.* Stem erect, much branched, about two feet high. Leaves oval, pointed, ſerrated. Flowers large, bluiſh white, on forked pedicles as long as the leaves, forming a kind of ſpicate panicle. Auguſt. P. Cornfields, &c. *Ger.* 687. 3. S. Brit.

2. Nepeta. *Field Calamint.* Stem reclined. Leaves oval, obtuſe, ſpotted. Flowers purpliſh white, on forked pedicles longer than the leaf. Aug. P. High-roads, fields, &c. *Ger.* 687. 3.

MELITTIS. Calyx companulate, much wider than the tube of the corolla, upper lip of the corolla plane, erect; middle ſegment of the under lip notched. Antheræ croſſed.

1. Meliſſophyllum. *Baſtard Baum.* Stems erect, ſquare, hairy, pithy, a foot and a half high. Leaves oval, pointed, hairy, ſcalloped, dark green. Flowers on ſingle pedicles, ſix in each whirl, red with purple ſpots, or white, with red ſpots. June. P. Woods, hedges, &c. Weſt of England. Pembrokeſhire, &c. *Ger.* 690. 3. 1. S. Brit.

SCUTELLARIA. Calyx ſhort, tubulated, mouth intire, after flowering cloſed by a cover, ſo as to reſemble a helmet.

1. Galericulata. *Hooded Willow-herb.* Stems weak, branched, above a foot high. Leaves heart-ſhaped, narrow, pointed, on ſhort foot-ſtalks ſcalloped. Flowers blue, in pairs, on pedicles from the alæ of the leaves, pendulous. Aug. P. Banks of rivers, &c. *Curt.* iii. 36.

2. Minor. *Leſs hooded Willow-herb.* Stalks about eight inches high. Leaves heart-ſhaped, oval. Flowers purple. July, Auguſt. P. Fens, &c. *Curt.* iv. 43.

PRUNELLA. Stamina forked, with antheræ on one branch only. Stigma bifid.

1. Vulgaris. *Self heal.* Stem erect, about eight or ten inches high. Leaves, on foot-ſtalks, ovato-oblong, ſlightly indented,

and ſomewhat hairy; bracteæ heart-ſhaped, oppoſite, fringed. Flowers purpliſh, or white, in denſe ſpikes, terminal. Aug. P. Meadows and paſtures. *Curt.* iv. 42.

II. ANGIOSPERMIA.

Seeds in a Capſule.

OROBANCHE. Calyx bifid. Corolla ringent. Capſule ovato-oblong, pointed, unilocular, bivalve. Seeds ſmall, numerous; receptacles four, linear, lateral.

1. Major. *Broom Rape.* Root an imbricated bulb. Stem ſimple, downy, brown, thick, one to two feet high, with membranes inſtead of leaves. Flowers in ſpikes, yellow-purple, terminal. Corolla quadrifid. May, July. P. Barren paſtures, &c. *Curt.* iv. 44.

2. Ramoſa. *Branched Broom Rape.* Stem branched, about eight inches high. Flowers pale red; corolla quinquifid. June. P. Corn-fields, but rare. *Ger.* 1312. 3. S. Brit. *Eng. Bot. tab.* 184.

* *Calyx quadrifid.*

BARTSIA. Calyx of two lobes, notched, coloured. Corolla ringent, leſs coloured than the calyx; upper lip erect, long; under lip trifid, reflex, ſmall. Capſule bilocular, oval, compreſſed, bivalve, pointed.

1. Viſcoſa. *Marſh Eye-bright. Cow-wheat.* Stem round, erect, branched, about a foot high. Leaves ſeſſile, large, pointed, ſerrated, alternate above. Flowers yellow, ſingle, lateral. Aug. A. On bogs, &c. in Cornwall. *Lightf.* xiv. p. 321.

2. Alpina. *Mountain Eyebright. Cow-wheat.* Stem not much branched, purpliſh, erect, eight or ten inches high. Leaves ſeſſile, oppoſite, heart-ſhaped, obtuſely ſerrated, ſhort, obtuſe, nervous, pale dead green. Flowers purple, in leafy ſpikes, on ſhort pedicles. Auguſt. P. Banks of rivers, &c. S. Brit.

RHINANTHUS. Calyx inflated, compreſſed. Corolla ringent. Capſule obtuſe, erect, compreſſed, bilocular, bivalve. Seeds ſeveral, compreſſed, covered with a looſe membrane.

1. Criſta Galli. *Yellow Rattle,* or *Cock's Comb.* Stem round, branched towards the top, about a foot high. Leaves oppoſite, ſeſſile, long, pointed, ſerrated. Flowers yellow, in long ſpikes, chiefly on one ſide; upper lip of the corolla compreſſed; calyx ſmooth. June, July. A. Meadows, &c. *Curt.* v. 43.

EUPHRASIA. Calyx cylindrical; ſegments unequal. Corolla ringent. Capſule ovato oblong, compreſſed, bilocular. Lower lobes of the inferior antheræ ſharp-pointed.

1. Officinalis. *Eyebright.* Stem branched, erect, about a foot high; branches oppoſite Leaves.

Leaves oppoſite, ſeſſile, oval, indented, deep green. Flowers white, in the alæ of the leaves. Aug. Sept. A. Meadows, &c. *Curt.* v. 24.

2. Odontites. *Red Eyebright.* Stem erect, branched, above a foot high. Leaves narrow, ſerrated, pointed, ſeſſile, oppoſite, often reddiſh. Flowers red, in the alæ of the leaves, generally on one ſide of the ſtem. Aug. Sept. A. Meadows, &c. *Curt.* i. 44. Bartſia of Hudſon.

MELAMPYRUM. Calyx tubular. Corolla maſked; tube curved; upper lip compreſſed; margin reflex. Capſule oblong, oblique, pointed, compreſſed, bilocular, bivalve. Seeds two, gibbous.

1. Criſtatum. *Creſted Cow-wheat.* Stem erect, branched, about a foot high. Leaves oppoſite, long, narrow, ſeſſile. Flowers yellow, or white, or purple, or mixt, in quadrangular, compact, imbricated, obtuſe, leafy, terminal ſpikes. July. A. In woods, &c. S. Brit. *Eng. Bot. tab.* 41.

2. Arvenſe. *Purple Cow-wheat.* Stem erect, firm, much branched, about one foot and a half high. Leaves ſeſſile, oppoſite, long, launce-ſhaped, indented; thoſe which grow among the flowers are ſhort, broad, laciniated, purple. Flowers yellow and red-brown, in conical leafy ſpikes. July. A. In corn-fields. *Ger.* 90. 1. 3. S. Br. *Eng. Bot. tab.* 53.

3. Pratenſe. *Meadow Cow-wheat.* Leaves launce-ſhaped. Flowers white, cloſed, with two yellow ſpots on the under lip, in pairs,

in looſe ſpikes, bending one way. July. A. In meadows, &c. *Ger.* 91. 1. *Eng. Bot. tab.* 113.

4. Sylvaticum. *Yellow Cow-wheat.* Stem weak, branched, about a foot high. Leaves on foot-ſtalks, launce-ſhaped; thoſe above indented at the baſe. Flowers yellow, in pairs, bending one way, in looſe ſpikes; corolla open. June, Aug. A. In woods. *Ger.* 91. 1.

LATHRÆA. Calyx campanulate. Corolla ringent; tube longer than the calyx; upper lip like a helmet, narrow, and hooked at the apex. Nectarium a depreſſed gland, at the baſe of the future of the germen. Capſule roundiſh, obtuſe, with a point, unilocular, bivalve.

1. Squamaria. *Tooth-wort.* Root a divided imbricated bulb. Stems ſeveral, about eight inches high, without leaves, but with membranes on the lower part. Flowers whitiſh purple, pendulous, in ſpikes, unilateral. April, May. P. *H. ox.* xii. 16. 14. *Eng. Bot. tab.* 50.

** *Calyx quinquifid.*

PEDICULARIS. Upper lip of the corolla like a helmet, compreſſed, erect, with a beak; under lip plane, trifid, middle ſegment leaſt. Capſule ovato-conic, compreſſed, pointed, oblique, bilocular. Seeds ſeveral, truncated.

1. Sylvatica. *Common Red Rattle*, or *Coxcomb.* Stems procumbent, eight or ten inches long, with many ſpreading branches. Leaves

Leaves pinnated. Flowers purple, in looſe ſpikes; calyx oblong, angulated, ſmooth. May. June. P. In wet meadows, &c. *Ger.* 1071. 2.

2. Paluſtris. *Marſh Red Rattle.* Stems erect, branched, above a foot high. Leaves numerous, pinnated, deeply indented, often brown. Flowers purple, on pedicles, in the alæ of the leaves, forming a kind of looſe ſpike; calyx compreſſed, ſomewhat bellying, a little hairy, dotted, and often bifid. June. P. Wet meadows, &c. *Pet.* 36. 3.

ANTIRRHINUM. Corolla ringent; upper lip bifid, reflex; under lip trifid; palate convex, cloſing the tube; nectarium extended from the baſe of the corolla in a kind of ſpur. Capſule bilocular.

* *Leaves angular.*

1. Cymbalaria *Ivy-leaved Toadflax.* Stems procumbent, creeping. Leaves alternate, heart-ſhaped, 5-lobed, ſmooth. Flowers ſingle, on pedicles, from the alæ of the leaves, purple and yellow; calyx purple. Spur ſlender, curved, purple. June, Oct. P. On old walls near London frequent. *Curt.* i. 10. S. Brit.

2. Elatine. *Sharp-pointed Fluellin.* Stem procumbent, branched, about eight inches long. Lower leaves oppoſite; thoſe above alternate, arrow-ſhaped, hairy, pale green. Flowers yellow and purple, ſmall. Spur long, ſmall, pointed. Aug. Oct. A. In corn-fields. *Curt.* i. 7. S. Brit.

3. Spurium.

3. Spurium. *Round-leaved Fluellin.* Stems procumbent, hairy, numerous. Lower leaves on foot-ſtalks oppoſite; thoſe above, alternate, hairy, oval, pointed. Flowers yellow and purple, with a long ſpur. July, Sept. A. In corn-fields. *Curt.* iii. 37. S. Brit.

** *Leaves oppoſite.*

4. Repens. *Creeping Toad flax.* Stem procumbent. Leaves narrow, four together, in whirls. Flowers violet and yellow, with a long ſharp ſpur, in long looſe leafy ſpikes. July, Sept. P. In hedges in Cornwall. S. Brit.

5. Arvenſe. *Blue Corn-Toadflax.* Stem erect. Leaves narrow, in whirls. Flowers blue, in ſpikes; calyx hairy, viſcid. July, Aug. A. Corn-fields, &c. S. Brit.

*** *Leaves alternate.*

6. Monſpeſſulanum. *Sweet-ſmelling Toadflax.* Stem numerous, ſlender, erect. Leaves ſeſſile, narrow, numerous, thick-ſet. Flowers blue, with a very ſhort ſpur, in ſpikes, terminal. July, Sept. P. Corn fields. S. Brit.

7. Linaria. *Common Yellow Toadflax.* Stem firm, erect, about two feet high. Leaves ſeſſile, launce-ſhaped, blue green, numerous. Flowers pale and deep yellow, with a long curved ſpur, in ſhort ſpikes. July. P. Meadows, &c. *Curt.* i. 47.

8. Minus. *Leaſt Toadflax.* Stem much branched, diffuſe. Leaves launce-ſhaped, obtuſe, viſcid. Flowers ſmall, with a very ſhort ſpur, purple and yellowiſh white,

in the alæ of the leaves. June, Sept. A. *Curt.* v. 51. S. Brit.

**** *Corolla gaping, without ſpur. Leaves alternate, intire.*

9. Majus. *Great Snapdragon.* Stem erect, near three feet high. Leaves launce-ſhaped, on foot ſtalks. Flowers purple, large, in naked ſpikes; calyx ſmall, ſegments rounded. June. B. On old walls, &c. *Ger.* 549. 1. S. Brit. *Eng. Bot. tab.* 129.

10. Orontium. *Leaſt Snapdragon.* Stem erect, about a foot high. Leaves narrow. Flowers few, diſperſed, purple, with a little yellow; calyx longer than the corolla. July, Aug. A. Corn-fields. *Curt.* iv. 45. S. Brit.

SCROPHULARIA. Segments of the calyx unequal. Corolla ſomewhat globoſe; tube wide, open, ſegments ſmall; upper ſegments erect, with a bifid ſcale at their baſe; lateral ſegment ſpreading; lower ſegment reflex. Capſule roundiſh, pointed, bivalve, bilocular.

1. Nodoſa. *Common Figwort.* Root tuberous. Stem ſquare, about three feet high, brown. Leaves heart-ſhaped, on foot-ſtalks, indented, oppoſite. Flowers greeniſh purple in bunches, terminal. July. P. in woods and hedges, &c. *Ger.* 716. 1.

2. Aquatica. *Water Figwort*, or *Betony.* Root fibrous. Stem erect, ſquare, about four feet high. Leaves oppoſite, elliptical, pointed, ſlightly ſcalloped, on decurrent foot-

foot-ſtalks. Flowers purple, in looſe, naked ſpikes, terminal. July. P. In water. *Curt.* v. 44.

3. Scorodonia. *Baum-leaved Figwort.* Stem erect, ſquare about two feet high. Leaves oppoſite, doubly ſerrated. Flowers duſky purple, in compoſite bunches, terminal. Aug. P. Banks of rivulets, &c. in Cornwall, &c. *H. ox.* 35. row 2. f. 2. S. Brit.

4. Vernalis. *Yellow Figwort.* Stalks ſquare, hairy, brown, about two feet high. Leaves heart-ſhaped, roundiſh, hairy, indented, oppoſite. Flowers yellow, on ſingle forked pedicles, from the alæ of the leaves. April, May. B. In hedges in Surry, &c. *Ger.* 717. 3.

DIGITALIS. Calyx of five ſegments, permanent. Corolla campanulate bellying on the backſide, quadrifid; baſe cylindrical, narrow. Capſule oval, bilocular, bivalve.

1. Purpurea. *Foxglove.* Stem erect, firm, about four feet high. Leaves on ſhort foot-ſtalks, elliptical, pointed, downy, ſlightly ſerrated. Flowers purple, in long, terminal, unilateral ſpikes. July P. In hedges, &c. *Curt.* i. 48.

SIBTHORPIA. Calyx of five ſegments, ſpreading. Corolla of five ſegments, rounded, ſpreading, equal, the length of the calyx. Stamina in pairs, approximate. Capſule compreſſed, orbicular, bilocular, partition tranſverſe.

1. Europæa.

1. Europæa. *Baſtard Money wort.* Stems ſlender, creeping. Leaves ſmall, round, notched round the edges. Flowers in the alæ of the leaves, pale red, ſmall. July. Sept. P. Banks of rivulets in Cornwall, &c. S. Brit.

LIMOSELLA. Calyx quinquifid, erect, acute, permanent. Corolla campanulate, quinquifid, nearly equal, acute, ſmall. Stamina in pairs, approximate. Capſule unilocular bivalve. Seeds many. Receptacle oval large.

1. Aquatica. *Baſtard Plantain.* Stems ſlender, creeping. Leaves launce-ſhaped, on long foot-ſtalks, in tufts, on the ground. Flowers ſmall, ſingle, white, reddiſh within; ſtamina black. July, Sept. A. In pools of ſtagnant water. H. *ox.* xv. 2. r. 2. f. 2.

CLASS

CLASS XV.

TETRADYNAMIA.

Calyx a perianthium of four leaves. Corolla of four leaves, equal, cruciform. Stamina ſix, two of which are ſhorter than the reſt. Piſtillum one; germen above the receptacle.

I. SILICULOSA.

Pericarpium ſmall, round, with the apex of the diſſepiment extended beyond the valves.

* *Apex of the pod intire.*

MYAGRUM. Calyx coloured, deciduous. Pod ſomewhat heart-ſhaped; valves concave; apex conic, rigid.

1. Sativum. *Gold of Pleaſure.* Stem ſingle, branched, about two feet high. Leaves oblong, ſeſſile, arrow-ſhaped, ſerrated. Flowers in tufts, pale yellow. Seeds yellow, numerous. Jun. A. Among flax frequent. *Ger.* 273. 3.

VELLA. Pod globoſe, bilocular; diſſepiment double the length of the valves, beyond which it is oval, erect.

1. Annua. *Creſs Rocket.* Stem erect, branched, about a foot high. Leaves pinnatifid, ſegments narrow. Flowers pale yellow, in ſpikes terminal. Pods pendulous. June. A. On high ground. *Ger.* 247. 4. S. Brit.

SUBU-

SUBULARIA. Pod inverſely oval. Valves oval, concave, contrary to the partition. Style ſhorter than the pod.

1. Aquatica. *Awl-wort.* Stem naked, one inch in height. Leaves awl-ſhaped, in cluſters round the root. Flowers ſmall, white, four or five under water. *H. ox.* viii. 10. 29. Jul. A. In lakes in Ireland, Scotl. Wales.

DRABA. Pod oblong-oval, compreſſed, bilocular; diſſepiment parallel to the valves, without ſtyle.

1. Verna. *Common Whitlow Graſs.* Stalks naked, about four inches high. Radical leaves, oblong, obtuſe, ſlightly indented, in a tuft on the ground. Flowers ſmall, white, in looſe panicles. April. A. On walls, &c. *Curt.* i. 49.

2. Muralis. *Speedwell-leaved Whitlow Graſs.* Stem branched, hairy, eight or ten inches high. Leaves broad, heart ſhaped, hairy, embracing the ſtem, ſerrated. Flowers ſmall, white, in long looſe ſpikes. Pods elliptical, pointed at each end. Seeds many, yellow. May. A. In fiſſures of rocks, &c. *H. ox.* iii. 20. 5. S. Brit.

3. Incana. *Hoary Whitlow Graſs.* Stem eight or ten inches high. Leaves numerous, hoary, indented. Flowers ſmall, white. Pod oblong, twiſted. May. P. In fiſſures of rocks, high paſtures, &c. In the North. *Pet.* 48. 3.

** *Apex of the Pod notched.*

LEPIDIUM. Pod heart-ſhaped, compreſſed, containing ſeveral ſeeds. Valves acutely carinated contrary-wiſe.

1. Petræum. *Mountain Dittander.* Stem ſingle, ſimple, about four inches high. Leaves pinnated, intire. Petals white, round, notched, leſs than the calyx. Calyx whitiſh, tipt with yellow. April, May. A. On St. Vincent's rock. S. Brit. *Eng. Bot. tab.* iii.

2. Latifolium. *Dittander*, or *Pepperwort.* Stem firm, much branched, three or four feet high. Leaves on foot-ſtalks, ovato-launce-ſhaped, ſerrated. Flowers ſmall, white, numerous, terminal. June, July. P. in meadows, &c. but rare. *Ger.* 241. 2. *Eng. Bot tab.* 182.

3. Ruderale. *Narrow-leaved wild Creſs*, or *Dittander.* Flower diandria, without petals. Radicle leaves pinnated, dentated; the reſt intire. June. B. On the coaſt. *Ger.* 262. 4.

4. Anglicum. *Procumbent Pepperwort.* Flowers diandrous with four Petals. Leaves pinnatifid. Stalk procumbent, hairy. June, July. In the weſt of England among rubbiſh.

THLASPI. Pod obcordate, containing ſeveral ſeeds. Valves navicular, marginato-carinated.

1. Arvenſe. *Treacle Muſtard*, or *Penny-Creſs.* Stalk firm, about a foot high, branched. Leaves oblong, ſmooth, ſcalloped, broadeſt

broadeſt towards the end. Flowers white. Pods round. June, July. A. In corn-fields. *Ger.* 262. 1.

2. Hirtum. *Perennial Mithridate Muſtard.* Stem ſimple, hairy, about a foot high. Radical leaves oval, hairy; the reſt downy, ſoft, arrow ſhaped, in part embracing the ſtalk. Calyx white. Petals white, oval, intire. Pods roundiſh, hairy. July. A. On the mountains in Wales. *Pet.* 50. 10. S. Brit.

3. Campeſtre. *Mithridate Muſtard*, or *Baſtard Creſs.* Stem firm, erect, downy, branched towards the top. Radicle leaves ſinuated, on foot ſtalks; the reſt arrow-ſhaped, downy, indented, bluiſh, ſeſſile. Flowers white. Calyx with brown ſpots. Pods roundiſh. June, July. B. Corn-fields, &c. *Curt.* v. 45.

4. Montanum. *Mountain Mithridate Muſtard.* Stalks ſeveral, firm, about ſix or eight inches high. Radicle leaves oval, dark bluiſh, ſmooth, intire, thick, in a round tuft; the reſt embrace the ſtem. Flowers ſmall, white; corolla longer than the calyx. Pods pear-ſhaped. July. P. On the mountains in Yorkſhire, &c. *Ger.* 268. 6. S. Brit. *Eng. Bot. tab.* 81.

5. Perfoliatum. *Perfoliate Treacle Muſtard.* Stalk ſimple, from four inches to near a foot high. Radicle leaves oval, on ſhort foot-ſtalks; thoſe above heart-ſhaped, perfoliate, ſlightly indented, tapering to a point. Flower white; corolla ſcarce longer than the calyx. Stamina white, longer than the corolla; antheræ yel-

lowiſh. Pods like *Shepherd's Purſe*. June. A. On high limeſtone paſtures. *Ger.* 268. 7. S. Brit. *Alpeſtre of Hudſon.*

6. Burſa Paſtoris. *Shepherd's Purſe*. Stalks branched, firm, about a foot high. Radical leaves pinnatifid; thoſe above embrace the ſtem. Flowers white. Pods flat, heart-ſhaped. March-Sept. A. Very common. *Curt.* i. 50.

COCHLEARIA. Pod heart-ſhaped, notched, turgid, rough; valves gibbous, obtuſe.

1. Officinalis. *Common*, or *Garden Scurvy-Graſs*. Stalks numerous, weak, about a foot high. Radical leaves roundiſh; thoſe above, oblong, narrow, oppoſite. Flowers white, in ſmall tufts, terminal. April, May. P. On the coaſt, and on mountains. *Ger.* 401. 1.

2. Anglica. *Engliſh* or *Common Sea Scurvy-graſs*. Stalks ſlender. Leaves ovato-launce-ſhaped, ſinuated; thoſe from the root fleſhy. Flowers ſmall, white. May. P. On the coaſt. *Ger.* 401. 2.

3. Danica. *Daniſh Scurvy-graſs*. Stalks numerous, about eight inches high. Leaves triangular, reſembling ivy, fleſhy, on foot-ſtalks. Flowers ſmall, white. May. P. On the Lancaſhire coaſt. *Fl. dan.* 100.

4. Groenlandica. *Groenland Scurvy-graſs*. Stalks numerous, weak, with few branches, about ſix inches high. Leaves kidney-ſhaped, fleſhy, intire; thoſe from the root convex beneath, on long foot-

ſtalks

ſtalks. Flowers white. April, May. P. on mountains in Wales, &c.

5. Coronopus. *Swines Creſſes.* Stalks numerous, branched, procumbent. Leaves pinnatifid; ſegments narrow, notched on each ſide at the end. Flowers white in the alæ of the leaves. June, July. A. High-roads, &c. frequent. *Ger.* 427. 2.

6. Armoracia. *Horſe-raddiſh.* Stem erect, near three feet high. Radical leaves a foot and half long, launce-ſhaped, notched in the edges; thoſe on the ſtem indented. Flowers ſmall, white, terminal. May. P. Among rubbiſh, ditches, &c. *Ger.* 241. 1. S. Brit.

IBERIS. Corolla irregular, exterior petals largeſt; the other two reflex. Pod erect, roundiſh, compreſſed, bilocular; margin acute; valves navicular, carinated. Seeds ſeveral.

1. Nudicaulis. *Rock Creſs.* Stalks erect, naked, ſimple, about four inches high. Leaves pinnatifid. Flowers white, ſmall, terminal. May. Jul. Aug. A. On gravelly ſoil. *Ger.* 276. 2.

2. Amara. *Bitter Candy-tuft.* Leaves lanceolate, acute, ſub-dentate. Flowers in cluſters. Smaller than the common candy-tuft. Jun. Jul. A. *Ger.* 2635. S. Brit. *Eng. Bot. tab.* 52.

II. SILIQUOSA.

Pod long, with a ſhort apex.

* *Calyx cloſed, its leaves longitudinally connivent.*

DENTARIA. Pod cylindrical, bilocular, bivalve, burſting elaſtically; valves rolling upward. Stigma notched.

1. Bulbifera. *Coralwort.* Stalks erect, weak, about a foot high. Upper leaves ſimple; lower leaves pinnated; pinnæ ſeven. Black berries in the alæ of the leaves. Flowers white, or reddiſh. April. P. In woods. *Ger.* 984. 1. S. Brit.

ERYSIMUM. Pod long, ſtraight, quadrangular, bivalve, bilocular. Seeds ſeveral, ſmall.

1. Officinale. *Hedge Muſtard.* Stem a little branched, erect, two or three feet high. Leaves harſh, deeply ſinuated. Flowers yellow, in long ſpikes, terminal. Pods preſſed cloſe to the ſtem, June. July. P. On waſte ground. *Curt.* v. 50.

2. Barbarea. *Winter Creſſes,* or *Rocket.* Stem branched, near two feet high. Leaves pinnatifid, with a large roundiſh ſegment at the end. Flowers yellow, terminal. May, June. P. In ditches. *Ger.* 243.

3. Alliaria. *Jack by the Hedge,* or *Sauce alone.* Stalks erect, with few branches, yellowiſh, two or three feet high. Leaves on

on foot ſtalks, ſingle, heart-ſhaped, indented. Flowers white, terminal. May. P. Under hedges. Smells like garlick. *Ger.* 794.

4. Cheiranthoides. *Treacle Wormſeed.* Stem erect, firm, branched towards the top. Leaves numerous, ſeſſile, launce-ſhaped, intire. Flowers ſmall, yellow, terminal. July. A. In fens frequent. *Ger.* 273. 4.

CHEIRANTHUS. Two oppoſite leaves of the calyx gibbous at the baſe. Germen angular, with a glandular tubercle on each ſide. Seeds ſeveral, pendulous, alternate, flat.

1. Cheiri. *Wall-flower.* Stem firm, erect, branched. Branches angular. Leaves ſeſſile, launce-ſhaped, ſmooth. Flowers yellow, in ſpikes, terminal. April, May. P. On walls, &c. *Ger.* 456. 1.

2. Tricuſpidatus. *Sea Wall flower*, or *July flower.* Stalks numerous, weak, branched, ſomewhat hairy. Leaves narrow, deeply ſinuated, hairy, pale, ſeſſile. Flowers white, terminal. Pods with a triple apex. June, July. On the coaſt of Wales and Cornwall. S. Brit.

3. Eryſimoides. *Wild July flower.* Leaves lanceolate, dentate, naked. Stem ſimple, erect, ſquare. *Ger.* 457. 4. June, July. B. S. Brit.

4. Sinuatus. *Hoary Sea July flower.* Leaves woolly, obtuſe, ſomewhat indented. Pods prickly. Stem erect. *Ger.* 460. 2. June, July. B.

HESPERIS. Petals bent obliquely. Two oppoſite leaves of the calyx gibbous at the baſe. A melliferous gland between the ſhort ſtamina. Style 0. Stigma forked at the baſe; apex connivent. Pod ſtraight.

1. Matronalis. *Unſavory Dame's Violet.* Stem ſimple, erect. Leaves ovato-launce-ſhaped, denticulated. Flowers large, purpliſh white; petals notched at the apex. May. P. On the banks of rivers in the North. *Ger.* 462, 1. *Inodora Hudſon.*

ARABIS. Two oppoſite leaves of the calyx larger, and gibbous at the baſe. Four nectariferous glands, like ſcales, reflex, between the leaves of the calyx. Stigmata ſimple.

1. Thaliana. *Codded Mouſe-ear.* Stalks numerous, erect, branched, about eight inches high. Radical leaves on foot-ſtalks, intire, ovato launce-ſhaped, hairy, numerous, in a round tuft; thoſe on the ſtem ſeſſile, and often ſmooth. Flowers white. Mar.—May. A. On walls, &c. *Curt.* ii. 49.

2. Stricta. *Rough A.* Leaves notched, hairy, half-ſheathing the ſtem, thoſe of the root ſpatulate, numerous. Stems many, ſix inches high. Flowers white, large, in cluſters. Pods erect, 2-edged. *Hudſ.* May. A. S. Brit.

3. Turrita. *Tower A.* Calyx wrinkled. Leaves ſheathing the ſtem. Pods declining, flat, ligulate. Stem 12 inches. Flowers pale yellow. June. A. *With. Ger.* 272. 2. S. Brit.

TUR-

TURRITIS. Pod very long, ſtraight, angular. Calyx erect. Corolla erect.

1. Glabra. *Great Tower Muſtard.* Stem erect, ſimple, about a foot and half high. Radical leaves rough, ſometimes intire, ſometimes indented, in a round tuft; the reſt ſmooth, arrow-ſhaped, embrace the ſtem. Flower ſmall, greeniſh white, in a long ſpike, terminal. May. A. In meadows, &c. *Curt.* iv. 47. S. Brit.

2. Hirſuta. *Hairy Tower Muſtard.* Stem erect, about 9 inches high. Radical leaves ſeſſile, hairy, in a thick tuft; the reſt hairy, embracing the ſtem. Flowers ſmall, white, in a ſpike, terminal. June. P. On rocks and old walls. *H. ox.* iii. 3. 5.

BRASSICA. Two nectariferous glands between the ſhorter ſtamina and piſtillum; and two between the longer and the calyx. Seeds globoſe.

1. Orientalis. *Perfoliate Cabbage.* Stem erect, branched, 3 feet high. Radical leaves rough, intire; the reſt ſmooth, heart-ſhaped, embracing the ſtem. Flowers white, ſmall, in long ſpikes. Pods long, ſquare. June. In corn-fields, &c. *Ger.* 536. 2. S. Brit.

2. Napus. *Wild Navew.* Stem erect, about 3 feet high. Radical leaves deeply ſinuated, ſmooth; the reſt heart-ſhaped, oblong, embracing the ſtem, ſlightly indented. Flowers yellow; calyx ſpreading. Root taper. May. P. On the banks of dtches, &c. *Ger.* 235. 2.

3. Rapa. *Turnip.* Stem erect, about 3 feet high.

Radical leaves rough, deeply ſinuated, large. Flowers yellow. Root orbicular, depreſſed. Apr. B. In fields, &c. *Ger.* 232. 1. S. Brit.

4. Oleracea. *Sea Cabbage.* Root cylindrical, fleſhy. Stem thick and ſpungy, about 3 feet high. Leaves large, thick ſcalloped. Flowers yellow. Seeds purpliſh brown. Apr. On Dover cliff, &c. *Pet.* 45. 6. S. Brit.

5. Campeſtris. *Field Cabbage.* The root and ſtem ſlender. Leaves of the ſtalk uniformly cordate and ſeſſile. June. A. In corn fields on the coaſt.

RAPHANUS. Nectariferous glands like the preceding genus. Pod bunched-out by the ſeed, and jointed.

1. Raphaniſtum. *Baſtard Radiſh*, or *white* or *yellow flowered Charlock.* Leaves rough, ſinuated, on foot-ſtalks. Pods cylindrical, ſmooth, unilocular. June, July. A. In corn-fields, *Curt.* iv. 46.

** *Calyx ſpreading.*

CARDAMINE. Pod ſlender, roundiſh; Valves burſting elaſtically, and rolling back. Stigma intire. Calyx ſpread a little.

1. Bellidifolia. *Daiſie-leaved Lady ſmock.* Stem ſimple, 3 or 4 inches high. Radical leaves oval, ſimple, intire, on long foot ſtalks; the reſt generally ſeſſile. Flower white, ſometimes purpliſh; calyx brown. Pod large. April, May. P. On the Welſh mountains, &c. *H. ox.* iii. 4. 4. S. Brit.

2. Petræa.

2. Petræa. *Mountain L.* Stem ſimple, about 4 inches high. Leaves oblong, dentated. Flowers large and white. May. P. On high mountains in Wales. *Lightf.* xv. *p.* 353.

3. Impatiens. *Impatient L.* Stem erect, near a foot high. Leaves pinnated; pinnæ cut at the edges. Petals 0. April. A. On the mountains in the North. *Ger.* 260. 7. *Eng. Bot. tab.* 80.

4. Parviflora. *Small-flowered L.* Stem 6 or 8 inches high. Leaves pinnated, launce-ſhaped, obtuſe, but little dentated, ſmooth, and without ſtipulæ. Flowers white, ſmall. Pods erect, on horizontal pedicles. Apr. May. A. In meadows and banks of rivers frequent. In this a variety of the next?

5. Hirſuta. *Hairy L.* Stems ſlender, inclining, branched, 8 or 10 inches. Leaves pinnated, hairy. Flowers white, tetrandria, in naked ſpikes. Seeds 4 or 6. April—Aug. A. In meadows, &c. frequent. *Curt.* iv. 48.

6. Pratenſis. *Common L.* or *Cuckow-flower.* Stem hard, firm, almoſt naked, about a foot high. Leaves pinnated; pinnæ from the root roundiſh, thoſe on the ſtalk launce-ſhaped. Flowers large, white, or purpliſh. Apr. P. In wet meadows, &c. frequent. *Curt.* iii. 40.

7. Amara. *Bitter L.* Stalk but little branched, about two feet high. Leaves pinnated; pinnæ ſomewhat angular. Flower large, white, on ſhoots from the alæ of the leaves

leaves. April, May. P. In wet paſtures. *Curt.* iii. 39.

SISYMBRIUM. Pod curved, burſting; valves after burſting nearly ſtraight. Calyx and corolla ſpreading. Seeds ſeveral, ſmall.

* *Pods declining, ſhort.*

1. Naſturtium. *Water Creſſes.* Stem weak, branched. Leaves pinnated, ſomewhat heart-ſhaped. Flowers ſmall, white, in tufts, terminal. June. B. In ſhallow ſtreams. *Ger.* 257.

2. Sylveſtre. *Water Rocket.* Stem weak, branched, above a foot high. Leaves pinnated; pinnæ launce-ſhaped, ſerrated. Flowers ſmall, yellow. June. P. In ſhallow water frequent. *Curt.* iii. 41.

3. Amphibium. *Water raddiſh.* Stem firm, erect, 2 or 3 feet high. Leaves pinnatifid, ſerrated. Flowers yellow, in ſpikes. Pods ſomewhat oval, ſhort. June. P. In water. *Ger.* 234. 2.

4. Terreſtre. *Land Rocket.* CURT. Leaves pinnatifid. Pods filled with ſeed. Root annual, white. Stem angular, red-green, ſmooth. June—Sept. A. *Curt.* v. 49. S. Brit.

** *Stalks naked.*

5. Murale. *Wall Rocket.* Stems rough, about 8 inches high. Leaves on foot ſtalks, launce-ſhaped, ſmooth, ſinuated, ſerrated. Flowers yellow. Pods a little compreſſed,

preſſed, and ſlightly carinated. May, July. P. On ſandy ground in the North, Angleſea, &c. *Braſſica Muralis* of Hudſ. *Curt.* iii. 38.

6. Monenſe. *Yellow Rocket.* Stem ſmooth, about 6 or 8 inches high, procumbent. Leaves pinnatifid; pinnæ remote, generally 7 pair. Flower yellow; petals intire; calyx cloſed. June. A. In the Iſle of Man. *Braſſica* of Hudſ. *Lightf.* xv. *p.* 353. —not xxv. *p.* 347, as quoted in *With.*

**** Leaves bipinnated.*

7. Irio. *Broad-leaved Rocket,* or *Hedge Muſtard.* Stem ſmooth, about 2 feet high. Leaves broad, naked, pinnated, halberd-ſhaped at the end. Flowers yellow. Pods erect. May—Aug. A. On waſte ground. *Curt.* v. 48. S. Brit.

8 Sophia. *Flixweed.* Stem firm, branched, 2 or 3 feet high. Leaves multifid; ſegments narrow. Flowers yellow; petals much leſs than the calyx. Pods long, ſtiff, curved, without ſtyle, erect. Seeds minute, yellow. July. A. On walls, waſte ground, &c. *Ger.* 1068. 1.

SINAPIS. Calyx ſpreading. Claws of the petals erect. Two glandules between the ſhort ſtamina and piſtillum, alſo between the longer and the calyx. Pods ſpungy within, burſting.

1. Arvenſis. *Wild Muſtard,* or *Charlock.* Stem branched, about a foot and half high. Leaves broad, harſh, deeply ſinuated, ſerrated,

ſerrated, reſembling thoſe of the turnip. Flowers yellow. Pods multangular, toroſe, with a long beak. Seeds brown. June, July. A. Corn fields, waſte ground, &c. A. *Curt.* v. 47.

2. Alba. *White Muſtard.* Stem branched, hairy, about two feet high. Leaves large, rough, deeply ſinuated. Flowers yellow. Pods hairy, ſpreading, with a very long oblique beak. Seeds white, or reddiſh. July, Auguſt. A. Waſte ground, &c. *Curt.* v. 46.

3. Nigra. *Common Muſtard.* Stem branched a little, 3 feet high. Lower leaves rough, deeply ſinuated; upper leaves ſmooth, intire. Calyx yellow. Pods erect, ſmooth, quadrangular. Seeds brown. June. A. On waſte ground. *Ger.* 244. 1.

BUNIAS. Calyx ſpreading, deciduous. Pod irregular, quadrangular; ſides unequal, ovato-oblong, with points, deciduous.

1. Cakile. *Sea Rocket.* Stem partly procumbent. Leaves oblong, indented. Flowers pale purple. Seed ſingle. June. A. On the coaſt frequent. *Ger.* 248. 5.

ISATIS. Calyx coloured. Style 0. Pod oblong, launce-ſhaped, obtuſe, compreſſed, two edged, unilocular, bivalve; valves navicular, carinated, deciduous.

1. Tinctoria. *Woad.* Stem firm, erect, about 4 feet high. Leaves long, pointed, thick, bluiſh; thoſe from the root notched, the reſt

reſt arrow-ſhaped. Flowers yellow. Seed ſingle. July. B. In the fields between Bath and Briſtol, &c. *Ger.* 491. 2. S. Brit. *Eng. Bot. tab.* 97.

CRAMBE. Four longer ſtamina bifid at the apex. Berry dry, unilocular, deciduous. Seed one.

1. Maritima. *Sea Colewort.* Stem erect, branched, ſmooth, near three feet high. Leaves large, ſmooth, bluiſh, waved at the edges, heart-ſhaped, fleſhy. Flowers whitiſh. May. P. On the coaſt. *Ger.* 248. 16.

CLASS

CLASS XVI.

MONADELPHIA.

Stamina in one ſet, united below.

I. DECANDRIA

Stamina 5 or 10.

GERANIUM. *Cranes-bill.* Calyx of 5 leaves, permanent. Piſtillum 1; ſtyle ſubulate, long, permanent; ſtigmata 5, reflex. Capſule long, taper, with 5 cells, each containing a ſingle ſeed.

* *Stamina* 5.

1. Cicutarium. *Hemlock-leaved C.* Stem branched, weak. Leaves pinnated, indented, obtuſe. Flowers red, 3 or more on each pedicle. April—June A. Waſte ground, &c. *Curt.* i. 51.

2. Moſchatum. *Muſk C.* Differs from the laſt in the leaves being broader, and more intire, and in ſmelling like muſk. May, A. In dry meadows, &c. *Ger.* 941. S. Brit.

3. Maritimum. *Sea C.* Stem proſtrate, branched. Leaves heart-ſhaped, cut and notched at the edges, obtuſe, ſomewhat hairy. Flowers pale red, generally two on each pedicle. June, July. B. On the Weſtern coaſt. S. Brit.

4. Pim-

4. Pimpinellifolium. *Burnet-leaved. C.* CURT. *cat.* Flowers many. Stamina 5. Leaves pinnated. Stem branched. Two upper petals ſpotted at the baſe. Sandy ground. *With.*

** *Stamina* 10.

5. Phæum. *Spotted C.* Stem erect, 2 or 3 feet high, branched. Leaves alternate, downy, 5, lobed, ſerrated. Flowers dark-purple, 2 on each pedicle; petals waved. Calyx ſoft, with a ſhort ſpine. April, May. P. On high ground. *Ger.* 942. 3. S. Brit.

6. Nodoſum. *Knotty C.* Stem branched, about a foot high, with thick joints, generally red. Leaves trilobed, ſerrated. Flowers red, 2 on each pedicle. July, Aug. P. On the mountains in the north. *Ger.* 947. 2. S. Brit.

7. Sylvaticum. *Mountain C.* Stem erect, about 2 feet high. Leaves roundiſh, multifid, ſerrated. Flowers purpliſh, red, large; 2 on each pedicle; petals notched. July, Aug. P. On the mountains in the North. *Ger.* 942. 2. *Eng. Bot. tab.* 121.

8. Pratenſe. *Crowfoot C.* Stem erect, a foot and half high. Leaves roundiſh, quinquifid; lobes branched, trilobed, pinnated, acute, wrinkled. Flowers blue; petals intire, large; 2 flowers on each pedicle. June, July, P. In moiſt paſtures, &c. *Curt.* iv. 49.

9. Robertianum. *Herb Robert.* Stem branched, ſpreading, jointed, reddiſh. Leaves hairy, pentagonal, trifid; lobes pinnatifid. Flowers red; calyx hairy, 10-angular.

Two flowers on each pedicle, April—June. B. In hedges, &c. *Curt.* i. 52.

10. Lucidum. *Shining Dovesfoot C.* Stem branched, about a foot high, reddiſh, gloſſy. Leaves of 5 lobes, rounded, ſmooth. Flowers red, two on each pedicle; calyx pyramidal, angular, wrinkled. June, July. A. On walls, &c. *Eng. bot. tab.* 75.

11. Rotundifolium. *Round-leaved C.* Stem proſtrate about a foot long, branched. Leaves ſmall, kidney-ſhaped, divided into many ſegments. Flowers ſmall, blue, two on each pedicle; petals intire, the length of the calyx. Jul. P. On walls, &c. *Ger.* 938. *Eng. Bot. tab.* 157.

12. Molle. *Common Dovesfoot C.* Stem branched, diffuſe, weak, about a foot high. Leaves very broad, ſoft, kidney-ſhaped, quinquepartito-multifid; floral leaves alternate. Petals purple, bifid. Capſule hairy. May. A. Fields and hedges. *Curt.* ii 50.

13. Diſſectum. *Jagged-leaved Dovesfoot C.* Stem branched, leafy, erect, above a foot high. Leaves on long foot-ſtalks, in 5 lobes, multifid; ſegments very narrow. Flowers red, 2 on each long pedicle; petals notched. Capſule woolly. May, June. A. In meadows, &c.

14. Columbinum. *Long-ſtalked Dovesfoot C.* Stem branched, proſtrate. Leaves ſomewhat hairy, ſemicircular, deeply divided into 5 ſegments; middle lobes trifid, ſegments acute. Flowers two, reddiſh blue, on very long pedicles; calyx bearded; capſule ſmooth. June—Aug. A. In cornfields, &c.

15. Puſil-

15. Puſillum. *Small-flowered Dovesfoot C.* Stem diffuſe, about four inches high. Leaves reniform, palmated; ſegments acute. Flowers blue, 2 on each foot-ſtalk; petals bifid. June. In corn-fields, S. Brit.

16. Sanguineum. *Bloody C.* Stem branched, erect, not diffuſe, above a foot high. Leaves round, in 5 or 7 lobes, trifid. Flowers purpliſh red, 1 on each pedicle, large. June, July. P. Among rocks, in dry paſtures, &c. *Ger.* 945. 2.

II. POLYANDRIA.

Many Stamina.

ALTHEA. Calyx double; exterior in 9 ſegments, unequal; interior quinquifid. Corolla of 5 petals. Capſules ſeveral, containing each a ſingle round flat ſeed.

1. Officinalis. *Marſhmallow.* Stem firm, erect, 3 feet high. Leaves ſimple, woolly; thoſe from the root roundiſh, the reſt ſomewhat triangular. Flowers purpliſh white, large. Aug. P. In ſalt Marſhes frequent. *Ger.* 933. 1. *Eng. Bot. tab.* 147.

MALVA. *Mallow.* Calyx double; exterior of 3 leaves; otherwiſe like the laſt genus

1. Rotundifolia. *Dwarf M.* Stem proſtrate. Leaves heart-ſhaped, rounded, in 5 ſlight lobes, or rather angles. Flowers white, with a purple tinge. Jun.—Nov. A. High-roads, &c. *Curt.* iii. 43.

2. Parviflora. *Small flowered M.* Stem ſpreading, ſomewhat erect, about a foot high Leaves roundiſh, angulated. Flowers

purpliſh, ſmall, ſeſſile, crouded round the joints; calyx ſmooth, ſpreading. Jul. A. On ſandy ground, in Kent, &c. S. Brit.

3. Sylveſtris. *Common M.* Stem erect, firm, about 3 feet high. Leaves waved, in 5 or 7 lobes, obtuſe, ſerrated, on hairy foot-ſtalks. Flowers purple, on hairy pedicles, from the alæ of the upper leaves; petals heart-ſhaped. May—Nov. B. On waſte ground frequent. *Curt.* ii. 51.

4. Moſchata. *Jagged-leaved Vervain M.* Radical Leaves kidney-ſhaped, cut a little at the edges; thoſe above quinquepartite, pinnato-multifid. Flowers like the laſt. Jul. Aug. B. Meadows, &c. *Curt.* iv. 50.

5. Alcea. *Vervain Mallow.* Stem upright. Leaves divided roughiſh. Flowers purple. July—September. P. In Hedges.

LAVATERA. Exterior calyx trifid; otherwiſe like the two laſt genera.

1. Arborea. *Sea Tree Mallow.* Stem woody. Leaves heptangular, folded, downy. Flowers, on pedicles, ſingle from the alæ of the leaves, in whirls. Aug. P. On the coaſt.

CLASS

CLASS XVII.

DIADELPHIA.

Flowers papilionaceous, generally of four irregular petals. Stamina, generally, in two ſets, viz. one conſiſting of nine filaments, the other of one. Pericarpium generally a Legumen; that is, a pod, like our common Garden Pea.

I. HEXANDRIA.

Stamina 6.

FUMARIA. *Fumitory.* Calyx of 2 leaves, equal, erect, acute, permanent, Corolla ringent, monopetalous, with a blunt ſpur. Filaments 2, with 3 antheræ on each. Seed ſingle, incloſed in a looſe membrane.

1. Officinalis. *Fumitory.* Stems numerous, weak, intricate, branched, about a foot high. Leaves doubly pinnated; pinnæ trilobed; lobes bifid, and trifid. Flowers pink and deep purple, in long ſpikes, terminal. April—June. A. In fields and waſte ground frequent. *Curt.* ii. 52.

2. Capreolata. *Ramping. F.* Stems numerous, weak, near 2 feet high. Leaves of many ſegments, terminating in a tendril. Flowers pale red, in long looſe ſpikes. Aug. A. Hedges, &c. Hudſon makes this a variety of the preceding.

3. Claviculata. *Climbing* F. Stems weak, branched about a foot high. Leaves broad, bluiſh, with tendrils. Flowers purpliſh white, in ſpikes terminal. Pods linear. June. A. Hedges, &c. *Ger.* 1088. 2. *Eng. Bot. tab.* 103.

II. OCTANDRIA.

Stamina 8.

POLYGALA. Calyx of 5 leaves, 2 of which are like wings, and coloured. Corolla of four petals. Pod heart-ſhaped, bilocular. Seed ſingle, oval.

1. Vulgaris. *Milkwort.* Stems proſtrate, branched, about ſix inches long. Leaves narrow, pointed, intire, ſeſſile, irregular. Flowers creſted, blue, or reddiſh, or white, in ſpikes terminal. May, June. P. Heaths, &c. *Ger.* 564. *Eng. Bot. tab.* 76. There are ſeveral varieties of this ſpecies.

III. DECANDRIA.

Stamina 10.

SPARTIUM. Calyx ſmall, quinquedentate, coloured. Corolla papilionaceous, of 5 petals, the carina conſiſting of 2. Stigma longitudinal, woolly above. Filaments adhering to the carina.

1. Scoparium. *Common Broom.* A ſhrub about 4 feet high. Branches angular, without ſpines. Leaves ternate and ſingle, narrow. Flowers large, yellow. May, June. P. In dry paſtures, &c. *Curt.* v. 52.

GENIS-

GENISTA. Calyx ſmall, bilabiate, quinquedentate. Vexillum bent backward by the piſtillum and ſtamina, diſtant from the carina, which is longer than the vexillum.

1. Tinctoria. *Dyer's Weed*, or *Broom*. A low ſhrub, with many ſtems Branches ſtriated, erect, cylindrical Leaves launce-ſhaped, ſingle, ſmooth, numerous Flowers yellow, in cloſe ſpikes, terminal. July. In paſtures, &c. *Ger.* 1316. 1. *Eng. Bot. tab.* 44.

2. Anglica. *Needle Furze*, or *Petty Whin*. A low ſhrub, erect, with many branches. Spines ſimple, and on the older branches only. Leaves launce-ſhaped. Flowers yellow, in ſpikes. May. June. P. On moiſt heaths, &c. *Ger.* 1320. 4. *Eng. Bot. tab.* 132.

3. Piloſa. *Hairy Greenwood*. Leaves launce-ſhaped, blunt. Stalk decumbent, covered with tubercles. May, June. On heaths.

ULEX. Calyx of 2 leaves, quinquedentate. Corolla of 5 leaves. Pod almoſt covered by the calyx.

1. Europæus. *Common Furze, Whins*, or *Gorſe*. Leaves narrow, taper, acute, downy. Spines firm, numerous. Flowers yellow, in ſpikes, terminal. April, May. On commons frequent. *Ger.* 1319. 1.

ONONIS. *Reſtharrow*. Calyx in 5 ſegments, almoſt as long as the corolla; ſegments acute. Vexillum heart-ſhaped, ſtriated. Pod turgid, ſeſſile.

1. Spinoſa. *Spinous R.* Stems ſeveral, tough, red, not erect, a foot and half high.

Leaves narrow, pointed, ſerrated, numerous, ternate. Branches ſpinous. Flowers purple, on ſhort pedicles, from the alæ of the leaves. June, Aug. P. In barren paſtures. *Ger.* 1322. 1.

2. Arvenſis. *Corn R.* Stem about two feet high, much branched, and leafy. Branches without ſpines. Leaves oval, ſomewhat hairy, ſerrated, viſcid, on long foot-ſtalks, from long bivalve ſheaths. Flowers red, in ſpikes, terminal. July, Aug. P. in barren paſtures, &c. *Ger.* 1322. 3.

3. Repens. *Creeping R.* Stem diffuſe. Branches erect. Leaves numerous. oval, downy, ternate; ſtipulæ oval. Flowers in the alæ of the leaves, red, whitiſh. June, July. P. On the coaſt. This and the preceding are made varieties of the inermis of Hudſon.

ANTHYLLIS. Calyx a little inflated, hairy, quinquedentate, unequal. Pod roundiſh, ſmall, concealed within the calyx.

1. Vulneraria. *Kidney Vetch*, or *Lady's Finger*. Stem near a foot long, generally proſtrate. Leaves pinnated; pinnæ ſeveral pair, with a larger one at the end. Flowers yellow, ſometimes red, on ſlender pedicles, in a double head. Jul. P. In dry paſtures, &c. *Ger.* 1060. 1. *Eng. Bot. tab.* 104.

PISUM. Calyx quinquifid; two upper ſegments broadeſt. Style triangular, downy, carinated above. Pod large. Seeds ſeveral, round.

7 1. Maritimum.

1. Maritimum. *Sea Peaſe.* Root very long. Stems weak, angular, two or three feet long. Leaves pinnated, terminated by a tendril; ſtipulæ arrow-ſhaped. Flowers pale red and purple, in cluſters, on naked pedicles. July. P. On the Suſſex coaſt, &c. *Ger.* 1220. 5. S. Brit.

OROBUS. Calyx quinquedentate, tubular, obtuſe at the baſe; three lower teeth ſharper; upper teeth ſhorter, and deeply divided. Style filiform, bent upward. Stigma linear downy.

1. Tuberoſus. *Wood Peaſe*, or *Heath Peaſe.* Root tuberous. Stem ſimple, erect, about a foot high. Leaves pinnated, ſmooth. Flowers purple, three or four in a cluſter. Pods black, cylindrical, pendulous. May. P. In meadows, woods, &c. *Curt.* i. 53.

2. Sylvaticus. *Engliſh Wood Vetch.* Stems branched, hairy, decumbent, near two feet long. Leaves of about ſeven pair of pinnæ. Fowers red on the out ſide, purple and white within, five or ſix in a cluſter. July. P. In woods and hedges. *Lightf.* at p. 390.

LATHYRUS. Calyx campanulate, quinquifid, two upper ſegments ſhorteſt. Style plane, downy above. Pod very long.

* *A ſingle flower on each pedicle.*

1. Aphaca. *Yellow Vetchling.* Stalk angular, weak, branched, near two feet long. Leaves, or rather, ſtipulæ in pairs, triangular, bluiſh green, with a ſimple naked

naked tendril between. Flowers yellow. Seeds about ten. June, July. A. In corn-fields, but rare. *Curt.* v. 51.

2. Nyſſolia. *Crimſon Graſs Vetch.* Stem erect. Leaves alternate, narrow, like graſs, ſtriated. Flowers ſmall, red, on long pedicles from the alæ of the leaves. Pod three inches long, pendulous, hairy. Seeds about twelve, round, ſpotted. May. A. In corn-fields, &c. *Eng. Bot. tab.* 112.

** *Two flowers on each pedicle.*

3. Hirſutus. *Rough-poded Chichling Vetch.* Stalk about two feet long. Leaves in pairs, launce-ſhaped, ſharp pointed. Tendrils branched, with two leaves. Flowers crimſon, with yellow lines within, on long pedicles. Pod very hairy. Seeds rough. July. A. In corn-fields.

*** *Many flowers on each pedicle.*

4. Latifolius. *Broad-leaved Peaſe-everlaſting.* Stalks weak, flat, three or four feet long. Leaves in pairs, oval, two inches broad. Claſpers from between two leaves. Flowers pale purple, ten or twelve in a cluſter. Pods three inches long. July. P. In woods and hedges. *Ger.* 1229. 1.

5. Sylveſtris. *Narrow-leaved Peaſe-everlaſting,* Differs from the laſt in the leaves being narrower, and the flowers red and white. June, July P. *Ger.* 1229.

6. Pratenſis. *Tare-everlaſting,* or *Yellow Vetchling.* Stems weak. quadrangular, about a

foot high, with many branches. Leaves in pairs, elliptical, pointed at each end. Flowers yellow. Claſpers ſmall. Pods black, ſmooth. June, July. P. In woods, &c. *Curt.* iii. 44.

7. Paluſtris. *Marſh Chichling Vetch.* Stems branched, edged, weak, about two feet long. Leaves pinnated. Flowers blue and red. Claſpers with ſeveral leaves. June, July. In moiſt meadows. *Eng. Bot. tab.* 169.

VICIA. Calyx tubular, quinquifid; upper teeth ſhorter, but all of equal breadth. Stigma bearded tranſverſely on the under ſide. Pod ending in a point.

* *Flowers on long pedicles.*

1. Sylvatica. *Tufted Wood Vetch.* Stem angular, two feet long or more. Leaves pinnated; pinnæ about eight pair, oval. Stipulæ dentated. Flowers white ſtreaked with blue, numerous, pendulous, in long ſpikes. July, Aug. P. In woods and hedges. *Eng. Bot. tab.* 79.

2. Cracca. *Tufted Vetch.* Stem branched, three or four feet long. Leaves pinnated; pinnæ generally ten or twelve pair, launce ſhaped, downy. Stipulæ intire. Flowers purple, numerous, pendulous, in imbricated ſpikes. July, Aug. P. In woods and hedges. *Curt.* v. 54.

** *Flowers in the alæ of the leaves, ſubſeſſile.*

3. Sativa. *Common Vetch,* or *Tare.* Stalks round, weak, branched, about two feet long. Pinnæ

Pinnæ 5 or 7 pair, a little hairy, notched at the end. Stipulæ dentated. Flowers light and dark purple, on ſhort pedicles, generally 2 together. Pods erect. Seeds black. June. A. *Ger.* 1227. 1.

4. Lathyroides. *Strangle Tare*, or *Wild Vetch*. Stem not much branched, ſcarce two feet high. Leaves pinnated; pinnæ 3 or 4 pair, notched at the ends; thoſe below oval, the reſt narrow. Flowers bright red, 2 together. Pods erect, ſmooth. Seeds about 9, brown. May. June. A. In dry, ſandy paſtures. *Ger.* 1227. 4. *Eng. Bot. tab.* 30.

5. Lutea. *Yellow Vetch*. Leaves ſubſeſſile, oval, notched at the end. Flowers yellow. Pods ſingle, ſeſſile, hairy, reflex, thick. June, July. A. In meadows, &c. S. Brit. On Glaſtonbury Tor hill.

6. Sepium. *Buſh Vetch*. Stem weak, quadrangular, five or ſix feet long. Pinnæ ſeven or eight pair, oval, with the ends cut off. Flowers purple, generally four together, on ſhort pedicles. Pods ſhort, on pedicles. May. P. Among buſhes. *Ger.* 1052. 1.

7. Bithynica. *Rough Vetch*. Peduncles ſolitary, erect. Small leaves quatern, ovali-lanceolate. Stipulæ notched. July. B. in hedges. *With.*

8. Hybrida. *Baſtard Vetch*. Pods reflected, hairy, containing five ſeeds. The vexillum of the corolla hairy. June—Auguſt. In meadows and paſtures.

ERVUM.

ERVUM. Calyx almoſt as long as the corolla, in five ſegments, nearly equal. Stigma obtuſe, not bearded.

1. Tetraſpermum. *Smooth Tare.* Stems numerous, weak, about a foot long, angular. Pinnæ often ten pair, generally alternate. Flowers red, or purple, two or three together. Pods ſmooth, containing four ſeeds. June. A. In cornfields, &c. *Curt.* i. 55.

2. Hirſutum. *Rough Tare.* Stem weak, very ſlender, ſcarce a foot long. Leaves pinnated. Flowers blue and white, five or ſix in a cluſter, on pedicles. Pods ſhort, hairy. Seeds round, whitiſh, generally two. June. A. In cornfields, &c. *Curt.* i. 54.

3. Solonienſe. *Spring Tare.* Stem about a foot long. Prinnæ three or four pair, obtuſe. Flowers purple, generally ſingle, on a pedicle, with a tendril. Foot-ſtalks of the leaves ſharp-pointed. Pod ſlender. Seeds angular. April, May. In chalky paſtures, &c.

ORNITHOPUS. Calyx quinquedentate. Pod taper, round, curved, jointed. Seeds ſingle in each joint.

1. Perpuſillus. *Birdsfoot.* Stem weak, five or ſix inches high. Leaves pinnated; pinnæ ſmall, roundiſh, numerous, with an odd one at the end. Flowers yellow, purple and white, in a ſimple umbel. Pods reſemble a bird's foot. May. Auguſt. A. In paſtures, &c. *Ger.* 1241. 3. 4.

HIPOCREPIS.

HIPOCREPIS. Calyx quinquedentate, the two upper denticles conjunct. Pod compreſſed, curved, with one ſuture deeply indented.

1. Comoſa. *Tufted Horſeſhoe Vetch.* Stem weak, branched, ſcarce a foot long. Pinnæ oval, five or ſix pair, with an odd one. Flowers yellow, numerous, in ſimple umbels, terminal. Pods waved on the outer ſuture, pendulous. July. B. On chalk hills. *Ger.* 1056. 2. S. Brit. *Eng. Bot. tab.* 31.

HEDYSARUM. Carina tranſverſely obtuſe, ſo as to be almoſt triangular. Pod roundiſh. Seeds ſingle.

1. Onobrychis. *St. Foin,* or *Cock's-head.* Stems ſeveral, weak, half a yard long. Leaves pinnated, about ſeven pair, with an odd one; pinnæ oblong, pointed. Flowers red; wings of the corolla very ſhort. Pods prickly, containing a ſingle ſeed. July. P. In chalky paſtures. *Ger.* 1243. 1. S. Brit. *Eng. Bot. tab.* 96.

ASTRAGALUS. Calyx quinquedentate; lower teeth gradually leſs. Vexillum longeſt petal. Pod bilocular, gibbous, rounded.

1. Glycyphyllos. *Wild Liquorice,* or *Liquorice Vetch.* Stem branched, procumbent. Leaves large, pinnated; pinnæ five or ſix pair, with an odd one, oval. Flowers pale yellow, in thick bunches. Pods triangular, the upper ſide hollow. Seeds numerous, brown. June, July. P. *Ger.* 1233. 2.

2. Arena-

2. Arenarius. *Purple Mountain Milkwort.* Stems about three inches long, procumbent. Leaves pinnated, downy. Flowers purple, in cluſters, erect. June, July. P. On downs, heaths, &c.

3. Uralenſis. *Silken Cock's-head.* Without Stem. Stalk erect longer than the leaves. Pods ſubulate, inflated, villous, erect. Leaves all radical, of ten or twelve pair of oval acute wings, downy. Flowers violet, eight or ten in a ſhort thick ſpike. Jul. P. *Lightf.* xvi. p. 401.

TRIFOLIUM. *Trefoil.* Vexillum reflex, and generally longer than the other petals. Pods very ſhort, univalve, not burſting, deciduous. Leaves three together. Flowers generally in round heads.

* *Meliloti: pods naked, containing more than one ſeed.*

1. Officinalis. *Common Melilot.* Stems erect, hollow, branched, three feet high. Leaves on foot-ſtalks, oblong, ſerrated. Flowers yellow, pendulous, on long ſpikes. Seeds two. June, July. P. In corn-fields, hedges, &c. *Ger.* 1205. 4.

2. Ornithipoides. *Birds-foot Trefoil.* Stalks about five inches long, procumbent. Leaves ſerrated. Flowers pale purple. Pods, three on one foot-ſtalk, longer than the calyx, erect. Seeds eight. June. A. In ſandy meadows, &c. *Curt.* ii. 53.

** *Lotoidea: pods covered; ſeeds four.*

3. Repens. *White T.* or *Dutch Clover.* Stems creeping. Leaves with a white ſpot in the

the middle. Flowers white, on ſhort pedicles, in a roundiſh head. May, Oct. P. In meadows, &c. every where. *Curt.* iii. 46.

**** Lagopoda: Calyx woolly.*

4. Subterraneum. *Dwarf T.* Leaves heart-ſhaped. Flowers white, in woolly heads, five in each. Central involucrum reflex, rigid, involving the fruit. Pods frequently under ground. May. A. In barren paſtures near London, &c. *Curt.* ii. 54. S. Brit.

5. Pratenſe. *Purple*, or *Honeyſuckle T.* or *Clover.* Stems diffuſe, about eight inches long. Leaves on ſhort foot-ſtalks, roundiſh, often marked with a white ſpot, and ſomewhat hairy. Flowers red, or purple, or yellowiſh white, in longiſh heads, between two membranous ſtipulæ; corollæ monopetalus. Lower tooth of the calyx very long. May, Sept. B. In meadows, &c. frequent. *Ger.* 1185. 1.

6. Arvenſe. *Hare's-foot T.* Stems erect, branched. downy. Leaves narrow, notched at the end, on very ſhort foot-ſtalks, and very ſoft. Flowers pale red, ſmall, in oblong, downy, ſpikes. Calyx quinquedentate, longer than the flower. June. Jul. A. In corn-fields, &c. *Ger.* 1192. 3.

7. Scabrum. *Oval-headed*, or *rough T.* Stems leaning, branched. Leaves on ſhort foot-ſtalks, oval, notched. Flowers white, very little longer than the calyx, in oval, rough, heads, ſeſſile, lateral. May, June. A. On chalk hills. *H. ox.* ii. 13. 10.

8. Glome-

8. Glomeratum. *Round-headed T.* Stem decumbent. Leaves ſmall, broad, indented. Flowers pale red, in round heads, ſeſſile, lateral; calyces ſtriated, ſpreading, with intermediate, rigid ſegments. June. A. In meadows, &c. On ſandy ſoil. *Curt.* iv. 51. S. Brit.

9. Striatum. *Knotted T.* Flowers ſmall, pale, purple, in ſoft, oval, lateral, heads, ſeſſile; calyces ſtriated, rounded. Seed large. Leaves ſomewhat hairy. June. A. In dry paſtures.

10. Alpeſtre. *Long-leaved purple T.* Stem erect. Leaves launce-ſhaped, ſerrated. Flowers deep purple, in roundiſh woolly heads, terminal. July. P. In mountainous paſtures. *Eng. Bot. tab.* 190.

11. Stellatum. *Teaſel headed T.* Stems diffuſe. Leaves hairy, wedge ſhaped. Flowers ſmall, red, in round woolly ſpikes; calyces ſpreading. June, July. P. In ſalt marſhes, &c. S. Brit.

**** *Veſicaria*: *Calyces inflated.*

12. Fragiferum. *Strawberry T.* Stem creeping, about five inches long. Leaves, on long foot-ſtalks, oval, obtuſe, bluiſh, ſerrated. Flowers reddiſh white, in roundiſh heads; calyces bidentate, reflex. Aug. P. In moiſt paſtures. *Curt.* ii. 55. S. Brit.

***** *Lupulina*: *Vexillum* reflex.

13. Agrarium. *Hop T.* Stem hard, branched, generally erect. Leaves ſmooth, oval, or heart-ſhaped, bluiſh, on ſhort foot-

ſtalks. Flowers yellow, on naked pedicles, in imbricated heads, reſembling hops. June. A. In meadows, &c. *Curt.* iii. 45.

14. Procumbens. *Procumbent T.* Stem procumbent, near a foot long. Leaves ſmall, heart-ſhaped. Flowers ſmall, yellow, in oval, imbricated ſpikes, or heads. May, Aug. In meadows, &c. *Curt.* v. 53.

15. Filiforme. *Small T.* Stem very ſlender, procumbent, about 4 inches long. Leaves notched, ſtriated, ſomewhat heart-ſhaped. Flowers ſmall, yellow; calyces on ſhort pedicles. May, June. A. In ſandy paſtures.

16. Ochroleucum. *Brimſtone T.* Spikes villous. Stem erect, downy. Foliolæ of the lower leaves inverſely cordate. Spikes globular. Corolla of one petal. Lower tooth of the calyx very long, ſtraight. Stem declining. Leaves woolly. HUDS. WITH. June. P. In Meadows and chalky paſtures. S. Brit.

17. Stellatum. *Star T.* Spikes hairy, oval; calyx ſpread. Stem diffuſe. Small leaves obcordate. Calyx as long as the corolla, divided to the baſe. Flower pale purple. Paſtures on the coaſt. June. P. S. Brit.

LOTUS. Calyx cylindrical, quinquifid; teeth ſharp, equal. Wings of the corolla broad, connivent upwards. Pod cylindrical, ſtiff, longer than the calyx.

1. Corniculatus. *Bird's-foot Trefoil.* Stem branched, decumbent. Leaves oblong, pointed, three on each foot-ſtalk, with two at the baſe.

baſe. Flowers yellow, in cluſters, on pedicles from the alæ of the leaves. Seeds numerous. June. Aug. P. In meadows, hedges, &c. *Curt.* ii. 56.

MEDICAGO. Calyx cylindrical, bellying a little, quinquifid. Wings of the corolla connivent under the carina, to which they are fixed by a ſhort appendix. Carina bifid, oblong, obtuſe, deflex. Pod ſpiral, compreſſed, containing many ſeeds.

1. Sativa. *Lucern.* Stem erect, ſmooth, branched, about two feet high. Leaves numerous, ſerrated three on each foot-ſtalk. Flowers purple, in cluſters, on pedicles. June, July. P. In meadows, &c. *Ger.* 1189. 2. S. Brit.

2. Falcata. *Yellow Medick.* Stems numerous, branched, proſtrate, ſomewhat woody. Leaves yellowiſh, narrow, three on each foot-ſtalk. Flowers yellow, in cluſters, terminal. Pods curved. July. P. In high roads, &c. *Ger.* 1191. 8. S. Brit.

3. Lupulina. *Melliot Trefoil.* Stem ſlender, procumbent, above a foot long. Leaves ſmall, obtuſe. Flowers yellow, in oval ſpikes. Pods reniform. May, Aug. A. In corn-fields, &c. *Curt.* ii. 57.

4. Arabica. *Heart Trefoil*, or *Clover.* Stem ſlender, diffuſe, eight or ten inches long. Leaves heart-ſhaped, on foot-ſtalks. Flowers yellow, on pedicles in cluſters. Pods prickly, twiſted. May. A. In meadows, corn-fields, &c. *Curt.* iii. 47. S. Brit.

CLASS XVIII.

POLYADELPHIA.

Many ſets of united Stamina.

POLYANDRIA.

Many Stamina in each ſet.

HYPERICUM. Calyx quinquepartite; ſegments oval, concave, permanent. Petals five, regular, obtuſe, ſpreading. Filaments in five ſets. Piſtilla three.

1. Androſæmum. *Tutſan* or *Park-leaves*. Stems numerous, hard, firm, two-edged. Leaves oppoſite, oval, large. Flowers large, yellow, in cluſters, terminal. Pericarpium reſembles a berry. The leaves generally grow red in autumn. July. P. In woods and moiſt hedges frequent. *Curt.* iii. 48.

2. Quadrangulum. *St. Peter's Wort*. Stem quadrangular, herbaceous, branched, about a foot high. Leaves oppoſite, ſeſſile, oval, obtuſe. Flowers yellow, on pedicles. July. P. In moiſt hedges. *Curt.* iv. 52.

3. Perforatum. *St. John's Wort*. Stem two-edged, about two feet high, branched towards the top. Leaves elliptical, oppoſite, obtuſe, with pellucid ſpots.

Flowers yellow, in cluſters, terminal, yielding a red juice when bruiſed. July. P. In hedges, &c. *Curt.* i. 57.

4. Humifuſum. *Trailing St. John's Wort.* Stem procumbent, edged, about ſix inches long. Leaves oppoſite, ſmooth, not punctured. Flowers yellow, axillary and terminal, July. P. In meadows, &c. *Curt.* iii. 50.

5. Montanum. *Imperforate St. John's Wort.* Stem ſingle, ſimple, near two feet high, erect, ſmooth. Leaves large, broad, not punctured, ſmooth. Flowers yellow, large, on pedicles, terminal; calyces ſerrato-glandular. July. P. In woods not frequent. *Fl. dan.* 173.

6. Hirſutum. *Hairy St. John's Wort.* Stem round, erect. Leaves oval, hairy. Flowers yellow; calyces ſerrato-glandular. July. In hedges, &c. *Pet.* 60. 10.

7. Pulchrum. *Upright St. John's Wort.* Stem round, naked, erect. Leaves heart-ſhaped, ſmooth, oppoſite, conjugate. Flowers yellow; calyces ſerrato-glandular. July. P. In woods, hedges, &c. *Curt. pl.* 56.

8. Elodes. *Marſh St. Peter's Wort.* Stem creeping, near a foot long, round. Leaves oppoſite, roundiſh, woolly. Flowers yellow, terminal. July. P. On bogs, &c. *Pet.* 60. 12. *Eng. Bot. tab.* 109.

CLASS XIX.

SYNGENESIA.

Flowers compound, except the laſt order: receptacle and calyx common to many ſeſſile monopetalous florets: altheræ five in each floret, collected in a cylinder: germen monoſpermous, under each floret.

I. POLYGAMIA ÆQUALIS.

Florets all hermaphrodite.

* *Florets ligulate.*

TRAGOPOGON. Common calyx of eight leaves united at the baſe. Receptacle naked. Down of the ſeed feathered, with about thirty radii.

1. Pratenſe. *Yellow Goat's beard.* Root conical, annular, eſculent. Stem erect, branched, graſſy, about two feet high. Leaves long, carinated, narrow, intire, ſeſſile, graſſy. Flowers yellow, large, ſingle, terminal; calyx equal with the florets. June. B. Shuts at noon. In meadows, &c. *Ger.* 735. 2.

2. Porrifolium. *Purple Goat's-beard.* Root long, thick, eſculent. Stem jointed, about two

two feet high. Leaves long, pointed, bluiſh. Flowers large, purple, ſingle, terminal; calyx longer than the radius of the flower. May. B. In meadows, &c. In gardens called ſalſafie. *Ger.* 735. 1. S. Brit.

PICRIS. Calyx double; the interior imbricated, exterior of five leaves. Receptacle naked. Down of the ſeed feathered. Seed tranſverſely furrowed.

1. Echioides. *Ox-tongue.* Stem branched, about eighteen inches high. Leaves long, narrow, rough. Flowers yellow in leafy heads; calyx ſurrounded by a large involucrum. July, Aug. A. *Curt.* iii. 51. S. Brit.

2. Hieracioides. *Yellow Succory*, or *Rough Hawkweed.* Stem a foot and a half high, branched, hairy. Leaves embrace the ſtem, hairy, almoſt oval; thoſe from the root indented. Flowers large, yellow, on long naked pedicles; calyx black, with yellow hairs, imbricated. Seeds curved. July. A. In corn-fields, *Ger.* 298. 7. S. Brit. Hedypnois of Hudſon.

SONCHUS. *Sow Thiſtle.* Calyx imbricated, bellying, conical; ſcales narrow, numerous, unequal. Receptacle naked. Down of the ſeed ſimple, ſeſſile, very ſoft. Seeds oval, pointed.

1. Paluſtris. *Marſh S. T.* Stem erect, ſix to ten feet high, branched and hairy towards the top. Leaves firm, broad, half-pinnated, ſerrated, ſharp-pointed,

the lower ones ſagitate at the baſe. Flowers deep yellow, large, diſperſed on the tops of the branches; calyx rough. Jul. Aug. P. In marſhes. *Curt.* v. 59. S. Brit.

2. Arvenſis. *Corn. S. T.* Leaves alternate, runcinate, cordate at the baſe. Root creeping. Stem half as high as the laſt, and flower larger. In corn-fields. Aug. P. *Curt.* iv. 53.

3. Oleraceus. *Common. S. T.* Stem firm, erect, much branched. Leaves broad, embracing the ſtem, generally deeply ſinuated, prickly at the edges. Flowers pale yellow, numerous, in a kind of umbel, terminal; calyx ſmooth. June, Sept. A. In corn-fields, roads, &c. *Curt.* ii. 58.

4. Alpinus. *Blue-flowered. S. T.* Stem erect, purpliſh, branched, or ſimple, from three to ſix feet high. Leaves large, ſmooth, ſinuated; the extreme ſegment large, triangular. Flowers blue, on hairy viſcid pedicles, in long ſpikes; calyx brown. A. *Wallis Northum. Ger.* 294. 7. S. Brit.

LACTUCA. *Lettuce.* Calyx imbricated, cylindrical, with a membranaceous margin. Receptacle naked. Down ſimple, connected to the ſeed by a ſtem, or ſtyle.

1. Scariola. *Mild-ſcented L.* Leaves vertical; carina prickly Lower leaves runcinate. Flowers ſmaller than that of *Viroſa*, and foot-ſtalks of the down ſhorter. Aug. B. WITH. S. Brit.

2. Viroſa.

2. Viroſa. *Strong-ſcented L.* Stem firm, hollow, five feet high. Leaves large, indented, with a ſpinous middle rib. Flowers ſmall, yellow, numerous, terminal. Seed black. Juice ſmells like opium. July, Aug. B. In hedges, &c. *Ger.* 309. 1.

3. Saligna. *Leaſt wild Lettuce.* Stem about a foot high. Leaves long, narrow, with prickly ridges; thoſe below pinnatifid. Flowers yellow, very ſmall; calyx tubular. Aug. A. On the banks of ditches. *Jacq.* iii. 250. S. Brit.

PRENANTHES. Calyx ſlender, double, cylindrical, of few ſcales, rarely more than five. Receptacle naked. Down of the ſeed ſimple, on a ſhort ſtyle. Florets in a ſingle ſeries.

1. Muralis. *Ivy-leaved wild Lettuce.* Stem erect, about two feet high. Leaves deeply cut at the baſe; the extreme ſegment large, triangular, trilobed. Flowers ſmall, yellow, on naked pedicles; floſcules five. July. P. On walls and in woods, &c. *Curt.* v. 58.

LEONTODON. Calyx imbricated, oblong; interior ſcales linear, parallel, equal; exterior few, generally reflex. Down of the ſeed on a pedicle, and feathered. Receptacle naked. Perennial.

1. Taraxacum. *Dandelion.* Stalk erect, ſimple, hollow, eight or ten inches high. Leaves in a circle, on the ground, deeply indented, ſoft; ſegments triangular, the extreme one largeſt. Flower yellow, large,

large, ſingle, terminal; calyx reflex beneath. The whole plant full of bitter milk. April. Sept. Hedypnois Hudſon. Meadows, &c. common. *Curt.* i. 58.

2. Hiſpidum. *Rough Dandelion.* Calyx intirely erect, rough, brown. Leaves rough; otherwiſe like the laſt. May, July. *Curt.* v. 56.

3. Autumnale. *Yellow Devil's bit.* Stem branched, leaning, about eight inches high. Leaves ſmooth, launce-ſhaped, intire, dentated. Flowers ſingle, yellow, on ſcaly pedicles; ſcales of the calyx ſmooth, erect. Root bitten off. Aug. P. In meadows, &c. *Ger.* 296. 2. *Hedypnois* of Hudſon.

HIERACIUM. *Hawkweed.* Calyx imbricated, oval; ſcales erect, unequal. Receptacle naked. Down of the ſeed ſimple, ſeſſile. Seed ſhort, almoſt cylindrical, or conic, furrowed.

* *Stalk naked, bearing a ſingle flower.*

1. Alpinum. *Mountain Hawkweed.* Stalk 6 or 8 inches high, naked, ſomewhat ſcaly. Leaves oblong, dentated, hairy. Flower ſingle, large; calyx black, hairy. In Wales. July. P. *Lightf.* xviii. *p.* 434.

2. Taraxaci. *Devil's-bit H.* Leaves lanceolate, dentate, ſmooth. Stalk almoſt naked, with one flower. Calyx hairy. Leaves of *Leont. autumnale.* Stalk and flower of H. *alpinum.* Down ſeſſile. July. P. *Hedypnois* of Hudſ.

3. Piloſella. *Mouſe-ear H.* Stalks creeping; that which bears the flower erect, beſet with black

black hairs, and ſwelling towards the top. Leaves oval, intire, downy white beneath. Flower pale yellow; calyx cylindrical, rough, black. May. A. In meadows, &c. *Curt.* iv. 54.

** *Stalk naked, bearing ſeveral flowers.*

4. Dubium. *Creeping H.* Stalks ſimple, about a foot long, creeping; that which bears the flowers erect. Leaves green on both ſides, beſet with long hairs, launce-ſhaped, ſlightly ſerrated. Flowers 4 or 5 ſmall, pale yellow. July, Aug. P. Weſtmoreland, &c. S. Brit.

5. Auricula. *Narrow-leaved H.* Leaves entire, lanceolate. Suckers creeping, leafy. Stalk erect, 5 or 6 inches. Flowers yellow, in a panicle. Very like the laſt. July. P. S. Brit.

*** *Stem leafy.*

6. Murorum. *French*, or *golden Lungwort.* Stem branched, about 2 feet long, hairy, with 1 or 2 narrow leaves. Radical leaves oval, hairy, dentated. Flowers yellow, in a kind of umbel. July. P. On walls, in woods, &c. *Ger.* 304. 1.

7. Paludoſum. *Marſh H.* Leaves embrace the ſtem, gradually tapering to a point, ſmooth, minutely dentated. Flowers large, yellow, in a panicle, terminal; calyx black, rough. July. B. In moiſt meadows. *Ger.* 300. 11.

8. Subaudum. *Broad-leaved, buſhy H.* Stem firm, erect, about a yard high, purpliſh. Leaves elliptical, pointed, firm, hairy, dentated. Flowers yellow, numerous, from the alæ of the upper leaves. July, Aug.

Aug. P. In woods and hedges, &c. *Fl. dan.* 872.

9. Umbellatum. *Narrow-leaved buſhy H.* Stem firm, erect, 3 or 4 feet high. Leaves numerous, narrow, ſharply dentated or intire. Flowers yellow, on long pedicles, in umbels, terminal; calyx livid, ſmooth. Seed purple. July, Aug. P. In woods and hedges. *Ger.* 298. 5.

CREPIS. *Hawkſbeard.* Calyx double; the exterior expanded, very ſhort, deciduous; interior ſimple. Receptacle naked. Down of the ſeed feathered, and raiſed on a long pedicle.

1. Fœtida. *Stinking H.* Stem branched, about a foot high. Leaves pinnated; pinnæ alternately leſs, ſharp pointed. Flowers yellow, purpliſh on the outſide, drooping before they blow. Smells like bitter almonds. June, July. B. In paſtures, but rare. *Ger.* 279. S. Brit.

2. Tectorum. *Smooth Succory H.* Stem hard, firm, ſtriated, much branched, foot a high. Leaves ſmooth, ſeſſile; thoſe from the root pinnato-dentate; the reſt launce-ſhaped, intire, or ſlightly dentate. Flowers yellow, very ſmall; calyx ſomewhat hairy, clammy. Seed very long. June. A. In paſtures, on walls, &c. every where. *Curt.* v. 55. *Hedypnois* of Hudſon.

3. Biennis. *Rough Succory H.* Stem thick, angular, rough, 3 or 4 feet high, branched, fragile. Leaves deeply ſinuated, rough beneath. Flowers yellow, not large, on long pedicles, from the alæ of the leaves; calyx furrowed, beſet with ſoft ſpines. July,

July, Auguſt. B. In meadows, hedges, &c. *Park.* 793. S. Brit. *Eng. Bot. tab.* 149.

HYOSERIS. Receptacle naked. Calyx of 10 leaves, imbricated; ſcales erect, equal. Down of the ſeed ſimple, capillary, or obſolete.

1. Minima. *Small Swine's Succory.* Stem naked, divided, about ſix inches high. Leaves narrow, intire. Flowers yellow, on forked pedicles enlarging towards the top. May. June. A. In meadows and corn-fields about London. *Ger.* 218. 8. *Eng. Bot. tab.* 95.

HYPOCHÆRIS. *Cat's-ear.* Receptacle ſcaly. Calyx roundiſh, imbricated, bellying at the baſe. Down of the ſeed raiſed on a pedicle, and feathered.

1. Maculata. *Spotted C.* Stem generally ſimple, almoſt naked, near 2 feet high. Leaves hairy, oval, dentated, often with brown ſpots. Flower yellow, large, ſingle, generally cloſed; calyx black, hairy, of large ſcales. July. P. On high ground, *Fl. dan.* 149. S. Brit.

2. Glabra. *Smooth C.* Stem branched, ſmooth, naked. Leaves ſinuated, dentated, ſmooth. Flower yellow, ſmall; calyx oblong; down partly ſeſſile. July. P. In high paſtures: about Briſtol frequent.

3. Radicata. *Long-rooted C.* Stem naked, branched, near two feet high. Leaves ſinuated, dentated, rough; denticles rectangular. Flowers yellow, full, purpliſh on the outſide; pedicles thickeſt near the flower; calyx

calyx a little hairy. May, June. P. In meadows, &c. *Curt.* iii. 52.

LAPSANA. Receptacle naked. Calyx imbricated, double, angular, with a few additional ſcales at the baſe; interior ſcales channelled. Seeds naked, oblong, ſtriated.

1. Communis. *Nipplewort.* Stem erect, from 2 to 5 feet high, branched at the top. Bottom leaves on long footſtalks, deeply ſinuated near the baſe; upper-leaves launce-ſhaped, ſerrated. Flowers ſmall, yellow, in umbels, terminal. June, July. A. In hedges, &c. frequent. *Curt.* i. 59.

CICHORIUM. Receptacle ſcaly. Calyx double; the interior of 8 ſcales forming a cylinder; exterior of 5. Seeds without down, or very little.

1. Intybus. *Wild Succory.* Stem about 2 feet high, ſimple, or ſometimes branched. Leaves ſinuated, dentated. Flowers blue, ſeſſile, lateral. Scales of the exterior calyx fringed. July, Auguſt. B. On waſte ground frequent. *Curt.* iv. 56. S. Brit.

** *Florets tubular, equal, collected in a roundiſh head.*

ARCTIUM. Calyx globoſe, imbricated; ſcales reflex, hooked.

1. Lappa. *Burdock.* Leaves heart-ſhaped, not prickly, on foot ſtalks. July, Aug. B. In high roads, waſte ground, &c. *Curt.* iv. 55.

SERRATULA. *Saw-wort.* Calyx cylindrical, imbricated; ſcales pointed, but not hooked nor ſpinous.

2. 1. Tinctoria.

1. Tinctoria. *Saw-wort.* Stem erect, ſlender, branched at the top, 3 feet high. Leaves ſmooth, pinnatifid, ſerrated. Flowers purple, in umbels, terminal. Down of the ſeed gloſſy, with a brown or gold tinge. July. P. In woods, meadows, &c. *Ger.* 377. 3. *Eng. Bot. tab.* 38.

2. Alpina. *Mountain Saw-wort.* Root and ſtem woody; the latter from 1 to 2 feet high. Leaves numerous, triangular, long, pointed, ſubſtantial, dark green above, white beneath, ſerrated, with round intervals between the teeth, on foot-ſtalks. Flowers purple. Scales of the calyx very ſhort, downy. Aug. P. On high mountains in Wales, and in the North of England. *Lightf.* xix. *p.* 428.

3. Arvenſis. *Corn Saw-wort*, or *Way Thiſtle.* Stem generally erect, branched, 2 or 3 feet high. Leaves ſinuated, ſerrated, ſpinous; thoſe above almoſt intire. Flowers pale purple; down very long. July. P. In high roads and corn-fields frequent, *Ger.* 1173. 4.

CARDUUS. *Thiſtle.* Calyx oval, imbricated; ſcales numerous, ſpinous, ſtraight. Receptacle hairy. Down of the ſeed ſeſſile, long.

* *Leaves decurrent.*

1. Lanceolatus. *Spear T.* Stem branched, 2 feet high. Leaves pinnatifid, rough, ſpinous, ſegments divaricated. Flowers purple; heads ſeſſile, terminal. Calyx hairy; ſpinous. July. A. In high roads frequent. *Ger.* 1174. 6. *Eng. bot. tab.* 107.

2. Nutans.

2. Nutans. *Muſk T.* Stem branched, 2 or 3 feet high, ſpinous, winged and downy. Leaves firm, gloſſy, deeply ſinuated, waved, ſpinous, with a white rib. Flower large, purple, generally ſingle, terminal, pendulous. Spines of the calyx yellow, ſtiff. Seed brown, gloſſy. Smells like muſk. July. B. In dry paſtures, &c. *Fl. dan.* 675.

3. Acanthoides. *Welted T.* Stem 2 or 3 feet high, with downy ſpinous wings. Leaves decurrent, pinnatifid, waved, ſpinous, downy beneath. Flowers pale red, ſmall, ſeſſile. Spines of the calyx yellow. June, July. A. In roads, ditch-banks, &c. *Pet.* 21. 2.

4. Criſpus. *Thiſtle upon T.* Stem brittle, branched, erect, 3 feet high, with long, narrow, ſpinous wings. Leaves ſinuated, fringed, ſpinous, downy on the under ſide. Flowers ſmall, aggregated, terminal, purple, ſpines of the calyx ſoft. June. A. Roads, ditches, &c. *Ger.* 1173. 1.

5. Paluſtris. *Marſh T.* Stem 5 or 6 feet high. Leaves narrow, dentated, ſpinous. Flowers purple, in bunches, erect, terminal. Calyx ſmooth. July P. In fenny ground. *Pet.* 21. 4.

** *Leaves ſeſſile.*

6. Pratenſis. *Gentle T.* Leaves ſeſſile, half-ſheathing, lanceolate, fringed, a little notched, beneath woolly. Stem 1 to 2 feet. Flower purple, terminal, generally ſolitary. July. P. *Ger.* 1183. 3. *Cirſium angl.* of Ray. *Card heterophyllus* of Lightf.

7. Marianus.

7 Marianus. *Milk Thiſtle*, or *Lady's Thiſtle*. Stem five feet high, firm, branched. Leaves very large, pinnatifid, ſpinous, waved, indented, ſtreaked with white veins. Flowers large, purple; calyx ſpinous. July. A. in ditches, &c. *Curt.* iii. 54.

8. Eriophorus. *Woolly-headed Thiſtle.* Stem about 6 feet high, firm, branched. Leaves a foot long, rough, downy beneath, doubly pinnatifid; ſegments alternately erect, ſpinous. Flowers purple, in large round heads; ſcales of the calyx erect, covered with ſilky down, and terminated by a yellow ſpine. July. P. in mountainous paſtures, &c. *Ger.* 1152. 6.

9. Helenioides. *Melancholy Thiſtle.* Stem erect, firm, 5 or 6 feet high, furrowed, downy. Leaves numerous, launce-ſhaped, white beneath, dentated, fringed with ſoft ſpines. Flower ſingle, large, purple, terminal. June, July. P. In Wales, and the North of England. *Mill.* 94.

10. Acaulis. *Dwarf Carline Thiſtle.* Stem ſcarce an inch long. Leaves ſpread on the ground, large, deeply divided, waved, ſpinous. Calyx ſmooth. Flower purple, very large, cloſing at night, and in rainy weather. Root woody, branched, black. July. P. In dry paſtures. *Ger.* 1158. 3. *Eng. Bot. tab.* 161.

ONOPORDUM. Calyx imbricated, bellying; ſcales numerous, ſpinous, prominent, downy. Receptacle naked with four-cornered membranaceous cells. Down of the ſeed capillary.

1. Acanthidum. *Cotton Thiſtle.* Stem 5 or 6 feet high, branched, winged, with dentated membranes. Leaves ſeſſile, oval-oblong, variouſly ſinuated; ſpines rigid, ſharp. Flowers purple, large, terminal; ſpines on the lower part of the calyx, reflex. July. B. On waſte ground, ditches, &c. *Curt.* v. 57.

CARLINA. Calyx imbricated, radiate; interior ſcales long, coloured. Down of the ſeed branched, feathered.

1. Vulgaris. *Wild Carline Thiſtle.* Stem erect, branched, purple, from 3 inches to a foot and half high. Leaves ſeſſile, ſtrong, downy, dentated, with two yellow ſpines to each denticle. Flowers purple, in a kind of umbel, terminal. The inner ſcales of the calyx yellowiſh. June. B. In dry paſtures, &c. *Ger.* 1159. 1.

**** Flowers diſcoide. Florets tubular.*

BIDENS. Calyx imbricated, Corollulæ quinquifid. Seed with two long rough ariſtæ. Sometimes there are few ligulate radiant floſcules. Receptacle ſcaly.

1. Tripartita. *Trifid Water-Hemp Agrimony.* Stem much branched, 2 feet high. Leaves 3 or 5 on each foot-ſtalk, deeply ſerrated. Flowers yellow, terminal. Seeds erect. July, Aug. A. In fens, &c. *Curt.* iv. 57.

2. Cernua. *Whole-leaved Water-Hemp Agrimony.* Differs from the laſt in the leaves being ſeſſile, ſingle, and the flower drooping, and larger. July, Auguſt. A. *Curt.* iii. 55.

EUPATORIUM

EUPATORIUM. Calyx imbricated; ſcales few, erect. Florets quinquifid, 5 in each calyx. Style very long, deeply divided. Receptacle naked. Down of the ſeed feathered.

1. Canabinum. *Hemp Agrimony.* Stem hairy, quadrangular, from 3 to 7 feet high. Leaves ſerrated, launce-ſhaped, 3 on each foot-ſtalk. Flowers pale red, ſmall, in large flat-topped cluſters, terminal. June, Sept. P. Near rivers, &c. *Ger.* 453. 2.

ATHANASIA. Calyx imbricated, oval; ſcales compact. Receptacle ſcaly. Florets uniform, numerous.

1. Maritima. *Sea Cudweed.* Stems numerous, white, a foot high. Leaves launce-ſhaped, intire, obtuſe, notched, downy. Flowers yellow and white, in cluſters, terminal. June, July. P. On the coaſt. *Ger.* 640. 3. S. Brit. *Santolina* of Hudſon. *Eng. Bot. tab.* 141.

II. POLYGAMIA SUPERFLUA.

Florets of the diſk hermaphrodite; thoſe of the radius female.

* *Diſcoide.*

TANACETUM. Calyx imbricated, hemiſpherical; ſcales acute. Radii obſolete, trifid. Receptacle convex, naked. Seed naked.

1. Vulgare. *Common Tanſy.* Stem erect, branched, 3 or 4 feet high. Leaves bipinnated, ſerrated. Flowers yellow, in naked plane cluſters, terminal. July, Auguſt. P. In

mountainous paſtures in the North. *Ger.* 650. 1.

ARTEMESIA. Calyx imbricated; ſcales rounded, connivent. Seeds naked. Radii 0. Receptacle plane, naked, or downy.

* *Procumbent before flowering.*

1. Campeſtris. *Field Southernwood.* Stems ſemi-, branched, woody, near 2 feet high. Leaves grey-green, multifid, on long foot-ſtalks. Flowers ſmall, brown, in ſhort ſpikes, on ſtraight, lateral twigs. Aug. P. In mountainous paſtures, &c. *Ger.* 1106. 5. S. Brit.

2. Maritima. *Sea Wormwood.* Stem branched, about 2 feet high. Leaves multipartite, downy. Flowers brown, in drooping cluſters, terminal; female floſcules ternate. Aug. P. On the coaſt. *Ger.* 1099. 1.

** *Erect: leaves compoſite.*

3. Abſinthium. *Common Wormwood.* Stem hard, branched, from 1 to 3 feet high. Leaves dark green above, white, downy on the under ſide, multifid, compoſite. Flowers ſingle, on pedicles, in unilateral ſpikes, pendulous. Receptacle woolly. Aug. P. On waſte ground. *Ger.* 1096. 1.

4. Vulgaris. *Mugwort.* Stem firm, erect, 3 or 4 feet high, purple. Leaves pinnatifid; ſegments long, pointed, cut in the edges, white, downy on the under ſide. Flowers purpliſh, erect, oval, ſeſſile, in long ſpikes, on the tops of the branches. Aug. P. In hedges, &c, *Ger.* 1103. 1.

*** *Leaves*

**** Leaves ſimple.*

5. Cœruleſcens. *Bluiſh-wermwood.* Differs from the *maritima* in the ſtem-leaves being entire. Aug. P. On the coaſt. *Ger.* 1104. 3. S. Brit.

GNAPHALIUM. *Cotton-weed.* Calyx imbricated; ſcales rounded, membranous, coloured, after flowering expanded. Down of the ſeed as long as the floſcules, capillary, or feathered. Female flowers without corolla. Receptacle naked.

1. Margaritaceum. *American C.* Stem thick branched at the top, downy, 3 or 4 feet high. Leaves long, narrow, pointed, downy beneath, alternate. Flowers terminal, in a looſe kind of umbel. Scales of the calyx partly white, without gloſs. Florets yellowiſh green. Aug. P. In meadows, &c. *Ger.* 641. 8. S. Brit.

2. Sylvaticum. *Upright C.* Stem erect, ſimple, or rather thick ſet with very ſhort branches, 2 feet high. Leaves very narrow, acute, downy beneath, erect. Flowers yellowiſh; females moſt numerous, on ſhort branches all along the upper part of the ſtem. Calyx whitiſh, ſhining. Aug. B. In woods, heaths, &c. *Ger.* 639. 1. *Eng. Bot. tab.* 124.

3. Uliginoſum. *Black-headed C.* Stem diffuſe, branched, about 8 inches high. Leaves long, narrow. Flowers yellowiſh, in black heads, terminal. Aug. A. In ſtagnant water, &c. *Ger.* 639. 2.

4. Luteo-album. *Jerſey C.* Leaves enſiform, half ſheathing, waved at the edge,

woolly on both ſides, blunt. Flowers denſe. July, Aug. A. *Ger.* 643. 13. WITH. S. Brit.

5. Supinum. *Dwarf C.* Stem ſimple, procumbent, 3 inches, high woolly. Leaves linear. Flowers 3 or 4 in a looſe ſpike. July, Auguſt. P. *Lightf.* xx. *p.* 470. N. Brit. On mountains.

6. Dioicum vide *Dioecia Syngeneſia.*

CONYZA. Calyx imbricated, oblong; ſcales acute, reflex. Receptacle naked. Down ſimple. Female floſcules trifid, marginal.

1. Squarroſa. *Plowman's Spikenard.* Stem firm, erect, branched, 2 feet high. Leaves launce-ſhaped, dark-green, wrinkled, downy beneath. Flowers purpliſh, dead yellow, in looſe cluſters, terminal. Scales of the calyx purple-pointed. Female flowers numerous. July, Aug. B. In dry paſtures, &c. *Ger.* 792.

Radiate.

ERIGERON. Calyx oblong, imbricated; ſcales long, narrow, erect. Female florets ligulate, erect, very narrow. Receptacle naked. Down of the ſeed ſimple, long.

1. Canadenſe. *Canada Fleabane.* Stem erect, hairy, from 2 to 4 feet high, much branched. Leaves long, narrow, intire, pale green. Ligulate florets numerous, reddiſh white; tubular yellow. Flowers ſeveral on each ſhort pedicle, from the alæ of the leaves, ſurrounding erect branches, in long looſe ſpikes. Aug. A. In waſte

waſte ground about London frequent. *Pet.* 16. 12.

2. Acre. *Blue-flowered Fleabane.* Stem from 3 inches to 2 feet high, rough, purpliſh. Leaves long, narrow, waved, a little hairy. Flowers on alternate pedicles, ſingle. Diſk yellow; florets of the radius blue, about 40 in number. July, Aug. B. *Curt.* i. 60.

TUSSILAGO. Calyx cylindrical; ſcales equal, 15 or 20, equal with the diſk. Receptacle naked, down ſimple. Corolla various.

1. Farfara. *Common Coltsfoot.* Stalks ſcaly, about 8 inches high, ſupporting a ſingle, yellow, radiate flower. Leaves heart-ſhaped, angular, dentated; radical, appearing after the flower. March. P. In moiſt ground. *Curt.* ii. 60.

2. Hybrida. *Long-ſtalked Butter-bur.* Stalks 2 or 3 feet high. Leaves very large. Flowers reddiſh, on very long branched pedicles, pendulous, in long looſe ſpikes. Scales of the calyx in a double ſeries, downy. Female florets numerous, ſmall, tubular; piſtillum long, horned; hermaphrodites 1 or 2. Apr. P. In moiſt meadows, &c.

3. Petaſites. *Common Butter-bur.* Stalks ſimple, purple, ſcaly, about a foot high, riſing before the leaves. Florets pale red, tubular, all hermaphrodite, regular, from 10 to 20 in number. Scales of the calyx in 4 ſeries, reddiſh. Leaves, on long foot-ſtalks, heart-ſhaped, dentated, ſomewhat downy beneath. Flowers in oval ſpikes.

March, April. P. In moiſt meadows, &c. *Curt.* ii. 59.

SENECIO. *Groundſel.* Calyx cylindrical, double; ſcales equal and contiguous, ſo as to ſeem intire; thoſe at the baſe few; apices dead. Receptacle naked. Floſcules of the diſk tubular; thoſe of the radius, if there be any, ligulate.

1. Vulgaris. *Common G.* Stem erect, thick, much branched, a foot high. Leaves ſeſſile, ſmooth, ſinuated, ſurrounding the ſtalk; ſegments ſhort, broad, minutely ſerrated. Flowers ſmall, yellow, numerous, terminal, without radii. May. A. In cultivated ground, &c. every where. *Curt.* i. 61.

* *Radii revolute.*

2. Viſcoſus. *Cotton G.* or *Stinking Groundſel.* Stem erect, branched at the top, 2 feet high. Leaves ſeſſile, pinnatifid, viſcid, downy. Flowers yellow, in umbels, terminal; radii very ſhort; ſcales of the calyx converging at the top. June. A. On ſandy ground frequent. *Ger.* 278. 2. *Eng. Bot. tab.* 32.

3. Sylvaticus. *Mountain G.* Stem erect, about a foot high. Leaves pinnatifid, dentated, ſomewhat hairy. Flowers ſmall, yellow, on ſeparate pedicles, in cluſters, terminal. July. A. In woods, heaths, &c. frequent. *Ger.* 278. 2. A variety of the preceding.

** *Radii ſtraight: leaves pinnatifid.*

4. Erucifolius. *Hoary perennial Ragwort.* Stem erect, downy, white, 2 feet high. Segments of the leaves narrow, divided at the

the ends, downy beneath. Flowers yellow, in cluſters, terminal. July. P. In woods, hedges, &c. *Curt.* v. 64. S. Br.

5. Jacobæa. *Common R.* Stem erect, thick, branched towards the top, three feet high. Leaves pinnatifid, or regularly dentated. Flowers yellow, on branched pedicles, in large cluſters, terminal. July. P. In paſtures frequent. *Ger.* 280. 1.

Aquaticus. HUDS. Is this a variety from ſituation?

**** Radii ſtraight: leaves not divided.*

6. Paludoſus. *Marſh R.* Stem erect, branched towards the top, four or five feet high. Leaves long, narrow, ſerrated, downy beneath. Flowers yellow, large. Aug. P. In fens, ditches, &c. *Ger.* 483. 6. S. Brit.

7. Saracenicus. *Broad-leaved R.* Stems erect, ſimple, four or five feet high. Leaves numerous, firm, elliptical, dark green, ſerrated. Flowers ſeveral on each pedicle, erect, yellow, in cluſters, terminal. July, Aug. P. In moiſt paſtures, &c. *Ger.* 429. S. Brit.

ASTER. Calyx imbricated; lower ſcales reflex. Radii more than ten, tridentate. Receptacle naked. Down ſimple.

1. Tripolium. *Sea Starwort.* Stem firm, two or three feet high, branched at the top. Leaves launce-ſhaped, thick, intire, ſmooth. Flowers large, in clu ers, terminal; diſk yellow, radius blu . Aug P. on the coaſt. *Ger.* 413. 1. *ng. Bot. tab.* 87.

SOLIDAGO.

SOLIDAGO. Calyx imbricated; ſcales curved inward. Radii about five. Receptacle naked. Down ſimple. Flowers looſe, in ſpikes parallel to the ſtem.

1. Virgaurea. *Golden Rod.* Stems two or three feet high, branched, angular. Leaves ovato-launce-ſhaped, ſerrated, on foot ſtalks. Flowers yellow, numerous, in ſpikes from the alæ of the leaves, erect, alternate; radii trinervate, contracted at the apex. July. P. In woods, hedges, &c. *Ger.* 430, 2.

2. Cambrica. *Welch Golden-rod.* Leaves launce-ſhaped, ſerrated, a little hoary. Flowers in pannicles terminal. Auguſt. P. On the mountains of Wales.

INULA. Calyx imbricated; ſcales looſe, ſpreading, of equal length. Radii numerous, linear, intire. Antheræ with ten briſtles at the baſe. Receptacle naked. Down ſimple.

1. Helenium. *Elecampane.* Root very large. Stem five or ſix feet high, firm, erect. Leaves numerous, very large, embracing the ſtem, wrinkled, oval, downy beneath, ſerrated. Flowers large, yellowiſh-green; ſcales of the calyx very broad, oval. July, Aug. P. In moiſt meadows, &c. *Ger.* 793, *Eng. Bot. tab.* 68.

2. Dyſenterica, *Middle Fleabane.* Stem hairy, about two feet high. Leaves cordato-oblong, embracing the ſtem, downy, pointed, waved at the edge. Flowers yellow, numerous, ſingle, on pedicles; ſcales of the calyx very numerous, hairy.

Radii tridentate. Smell and taſte acrid. Aug. P. Banks of rivers, ditches, &c. *Curt.* iii. 56. S. Brit.

3. Pulicaria. *Small Fleabane.* Stem much branched, purple, near two feet long, often proſtrate. Leaves waved, embracing the ſtem, fœtid. Flowers yellowiſh, terminal and lateral, often without radii. Calyx very hairy. Aug. Sept. A. *Curt.* iii. 57. In ſtagnant water. S. Br.

4. Crithmoides. *Golden Sampire.* Stem firm, erect. Leaves linear, thick, three-pointed. Flower ſingle, yellow, terminal. Aug. P. In meadows near the coaſt. *Ger.* 533. 3.

CINERARIA. Calyx ſimple, of many equal leaves. Radii ligulate, equal in number with the leaves of the calyx. Receptacle naked. Down ſimple.

1. Paluſtris. *Marſh Fleabane.* Stem erect, branched, woolly. Leaves ſeſſile, covering the ſtem, ſinuated, ſerrated, launce-ſhaped. Flowers yellow, numerous, terminal. Aug. P. In fens, &c. *Ger.* 483. 5. S. Brit. *Eng. Bot. tab.* 151.

2. Alpina. *Mountain Ragwort.* Stem erect, branched at the top, a foot high. Leaves intire, woolly, ſeſſile, launce-ſhaped. Flowers yellow, large, in umbels, terminal. June. P. In mountainous paſtures, &c. *Ger.* 280. 2. *Eng. Bot. tab.* 152.

BELLIS. Calyx ſimple, hemiſpherical; ſcales in a double ſeries, equal. Receptacle conic, naked. Down o. Radii numerous, intire. Seed oval.

1. Perennis.

1. Perennis. *Common Daiſy.* Stalks naked, three or four inches high. Leaves oblong, obtuſe, notched, ſpread upon the ground. Flowers ſingle, yellow and white. March—Oct. P. In meadows, &c. every where. *Curt.* i. 62.

CHRYSANTHEMUM. Receptacle naked. Down o. Calyx hemiſpherical, imbricated; ſcales compact; the interior ones gradually larger, and thoſe in the margin membranous. Radii more than twelve, tridentate.

1. Leucanthemum. *Great Daiſy.* Stem erect, about a foot and a half high. Leaves embrace the ſtem, oblong, ſerrated. Flowers like the common daiſy, but larger, one at the extremity of each branch. May. P. In paſtures, &c. *Curt.* v. 62.

2. Segetum. *Corn Marygold.* Stem about two feet high, branched. Leaves embrace the ſtem, numerous, deeply laciniated. Flowers yellow, large, terminal. June, July. A. In corn-fields. *Ger.* 743. 1.

3. Inodorum. *Chamomile Daiſy.* Stem much branched, ſmooth, ſtriated, about ten or twelve inches high. Leaves pinnated, multifid. Flowers large, terminal. External florets reflex. July—Sept. A. *Fl. dan.* 696. *Matricaria* of Hudſon.

MATRICARIA. Calyx hemiſpherical, imbricated; ſcales linear, ſub-equal, margin ſolid. Down o. Receptacle naked. Radii tridentate.

1. Parthenium. *Feverfew.* Stem branched, erect, two or three feet high. Leaves compoſite,

compoſite, foliola oval, and deeply cut at the edges. Flowers white, with a yellow diſk, on naked branched pedicles, in cluſters, terminal. June. P. On waſte ground. *Ger.* 651. 1.

2. Maritima. *Sea Feverfew.* Receptacle hemiſpherical. Leaves bipinnated, ſubſtantial, ſhort, convex above, carinated beneath, dark green. July. P. On the coaſt. *Raj. Syn.* p. 186.

3. Chamomilla. *Corn Feverfew*, or *Common Chamomile.* Stem erect, ſlender, branched, near two feet high. Leaves ſupradecompoſite, ſegments narrow. Flowers white, with a yellow diſk. Receptacle conical; ſcales of the calyx equal at the margin. Seeds naked. June. P. In corn-fields. *Curt.* v. 63.

4. Suaveolens. *Sweet-ſcented Feverfew.* Receptacle conic. Radii deflex. Scales of the calyx equal at the margin. Leaves in narrow ſegments, fragrant. May. On ſandy ground frequent. Properly a variety of the laſt.

ANTHEMIS. *Chamomile.* Calyx hemiſpherical; ſcales linear, ſub-equal. Receptacle ſcaly, conic. Down o. Radii more than five.

1. Maritima. *Sea C.* Stem proſtrate, branched, purpliſh. Leaves pinnated, fleſhy, dentated, ſubſtantial, punctured, purpliſh. Flowers white, with a yellow diſk, ſingle, terminal; pedicles ſomewhat downy, and thicker towards the end. Aug. P. On the coaſt. S. Brit.

2. Nobilis. *Sweet ſcented C.* Stem procumbent, much branched, about a foot long. Leaves

Leaves pinnato-compoſite, linear, acute, ſomewhat downy. Flowers white, with a yellow diſk, ſingle, terminal; radii deflex. July, Aug. P. In paſtures, &c. *Ger.* 755. 4.

3. Arvenſis. *Corn C.* Stem ſingle, branched, about a foot high. Leaves in numerous narrow obtuſe ſegments. Flowers large, white, with a yellow diſk, without ſmell. July. B. In corn-fields, &c. *Pet.* 19. 8.

4. Cotula. *Stinking C.* Stem erect, branched, a foot and half high. Leaves pinnato-decompoſite; pinnæ broader than the laſt. Flower white, with a yellow diſk; radii numerous, tridentate. June, July. A. In corn-fields, &c. *Curt.* v. 61.

5. Tinctoria. *Common Ox-eye.* Stem much branched, two feet high. Leaves pinnatifid; ſegments ſerrated, downy beneath. Flowers entirely yellow, large, in cluſters, terminal. July. P. In meadows, &c. *Ger.* 747. S. Brit.

ACHILLEA. Calyx oval, imbricated. Radii trinervate, tridentate, ſhort, broad, few. Receptacle ſcaly. Down 0.

1. Millefolium. *Yarrow*, or *Milfoil.* Stem erect, about a foot high. Leaves doubly pinnated; pinnæ numerous; pinnulæ trifid, quinquifid. Flowers white, often reddiſh, in a kind of denſe umbel, terminal. May, July. P. In meadows and paſtures very common. *Ger.* 1072. 2.

2. Ptarmica. *Sneeze-wort.* Stem firm, erect, branched, two feet high. Leaves long, narrow, pointed, ſerrated. Flowers ſmall,

ſmall, white, in a looſe kind of umbel, terminal; calyx a little hairy; radii not more than eleven. Aug. P. In moiſt woods, &c. *Curt.* v. 60.

III. POLYGAMIA FRUSTRANEA.

Florets of the diſk hermaphrodite; thoſe of the radius neuter.

CENTAUREA. Calyx imbricated. Floſcules tubular; thoſe in the radius larger, and irregularly divided. Receptacle briſtly. Down ſimple.

* *Scales of the calyx fringed.*

1. Cyanus. *Blue-bottle.* Stem firm, erect, ſlender, ribbed, ſomewhat downy, about a foot and half high, branched towards the top, with long, narrow, ſeſſile leaves; thoſe below dentated. Flowers blue, large, terminal. July. A. In corn-fields. *Ger.* 732. 2.

2. Scabioſa. *Great Knapweed,* or *Matfellon.* Stem hard, erect, branched, 2 or 3 feet high. Leaves alternate, pinnatifid; ſegments launce-ſhaped. Flowers purple, in roundiſh compact heads; ſingle, on long naked pedicles; fringe of the ſcales brown. June, July. P. In corn-fields, &c. *Ger.* 727. 2. *Eng. Bot. tab.* 56.

3. Nigra. *Common Knapweed.* Stem erect, 2 or 3 feet high, with angular branches. Leaves launce-ſhaped; thoſe below ſinuated, dentated. Flowers purple; florets all tubular, hermaphrodite. Calyx fringed, black. July, Auguſt. P. In meadows, &c. *Ger.* 727. 1.

** *Scales*

** *Scales of the calyx ſpinous.*

4. Calcitrapa. *Star-Thiſtle.* Stem branched, about 2 feet long, not erect. Leaves ſoft, hairy, pinnatifid, dentated, ſeſſile. Flowers purple, in ſeſſile, lateral heads; external florets form a regular radiated circle. July. A. In meadows, &c. *Ger.* 1066. 1. S. Brit. *Eng. Bot. tab.* 125.

5. Solſtitialis. *St. Barnaby's Thiſtle.* Stem erect, about two feet high. Leaves on the ſtem pinnatifid; thoſe on the branches decurrent, launce-ſhaped. Flowers yellow, in ſmall heads, terminal; ſcales of the calyx with double ſpines. July. A. In hedges, not common. *Ger.* 1166. 2. S. Brit.

IV. POLYGAMIA NECESSARIA.

Florets of the diſk *male*; thoſe of the radius *female.*

FILAGO. Calyx imbricated. Hermaphrodite florets in the diſk numerous; feminine ſcarce viſible, among the ſcales of the calyx. Receptacle naked. Down o. *Gnaphalium* of *Hudſon.*

1. Germanica. *Common Cudweed.* Stem erect, forked, branched, with many leaves, near a foot high. Leaves long, narrow, downy. Flowers brown, in round downy heads at the diviſion of the branches. Calyx pentagonal; ſcales gloſſy, acute. July. A. In meadows, &c. *Ger.* 642. 10.

2. Montana. *Leaſt Cudweed.* Stem erect, forked, branched, from three to ſix inches high. Leaves numerous, downy, very narrow, half,

half an inch long. Flowers in conical heads, axillary and lateral. July. A. In ſandy meadows, &c. *Ger.* 641. 9.

3. Gallica. *Corn Cudweed.* Stem forked, erect, much branched, three inches high. Leaves very narrow. Flowers pyramidal, axillary, numerous. June, July. A. In corn-fields. *Pet.* 18. 12.

VI. MONOGAMIA.

Flowers ſimple.

JASIONE. Calyx of 10 leaves. Corolla of 5 petals, regular. Capſule pentagonal, below the germen, bilocular.

1. Montana. *Hairy Sheep's Scabious.* Stems ſeveral, branched, not quite erect, about a foot high. Leaves on the ground numerous, long, narrow, obtuſe, waved, ſerrated, hairy. Flowers blue, on pedicles, in roundiſh heads, on long naked branches. June, July. A. Heaths, paſtures, &c. *Curt.* iv. 58.

LOBELIA. Calyx quinquifid. Corolla monopetalous, irregular. Capſule below the germen, bilocular.

1. Dortmanna. *Water Gladiole.* Stem naked, or with few leaves, about two feet high. Leaves from the root 12 or 14 in number, narrow, bilocular, intire. Flowers pale purple, in looſe ſpikes, pendulous. July, Aug. P. In the lakes in the North. *Lightf.* xxi. *p.* 505. *Eng. bot. tab.* 140.

2. Urens. *Biting. G.* Stem 12 inches high, a little erect. Lower leaves roundiſh, notched,

the upper lanceolate, ſerrated, ſeſſile, glued at the baſe. Flowers in bunches, blue; 2 pale ſpots in the palate. July. A. In mountainous paſtures. *H. ox.* v. 56. WITH.

VIOLA. Calyx of 5 leaves, ſhort. Corolla of 5 petals, irregular; the upper one notched, and ending in a ſpur behind; the lateral pair obtuſe; the 2 under petals broader. Stamina 5. Style 1. Capſule above the germen, unilocular, trivalve.

* *Without ſtem.*

1. Hirta. *Hairy Violet.* Leaves heart-ſhaped, hairy. Flowers pale blue, large, inodorous. Apr. P. In hedges, &c. *Curt.* i. 64.
2. Paluſtris. *Marſh Violet.* Leaves ſmooth, reniform, 2 or 3 on each foot-ſtalk. Flowers pale blue, ſmall, inodorous. June. P. In marſhy ground. *Curt.* iii. 58.
3. Odorata. *Purple ſweet Violet.* Leaves heart-ſhaped, notched. Flowers deep purple or white, ſingle. Creeping ſcions. Mar. Apr. P. In hedges. *Curt.* i. 63.

** *With ſtems.*

4. Canina. *Dog's Violet.* Stem procumbent, and then riſing upwards, leafy. Leaves heart-ſhaped, pointed. Flowers inodorous, pale blue, ſingle, on pedicles from the branches. Apr. P. On heaths, &c. *Curt.* ii. 61.
5. Tricolor. *Panſies, Heart's-Eaſe,* or *three Faces under a Hood.* Stems diffuſe, procumbent, triangular. Leaves oblong, cut at the edges; ſtipulæ dentated. Flowers purple,

purple, yellow and light blue; inodorous. A. May—Sept. *Curt.* i. 65.

6. Luea. *Yellow violet.* Stem erect, triangular, from an inch to a foot long. Leaves oval, notched, ſtipulæ pinnatifid. Flowers large, yellow, on long pedicles. May—Aug. P. On the mountains in the North and Wales. *Grandiflora* of Hudſon.

IMPATIENS. Calyx of 2 leaves, ſmall, coloured, deciduous. Corolla of 5 petals, irregular, with a ſpur behind. Stamina 5, very ſhort. Style 0; ſtigma ſimple. Capſule unilocular, quinquevalve.

1. Noli-tangere. *Touch me not* or *Yellow balſamine.* Stem erect, branched, tender, about 2 feet high, ſwoln beneath the branches. Leaves oval, ſerrated, on long foot-ſtalks. Flowers yellow, the lateral petals ſpotted with red, pendulous, 2 on each pedicle, numerous, from the alæ of the leaves. Aug. A. On the banks of lakes, &c. in the North. *Ger.* 446. S. Brit.

CLASS XX.

GYNANDRIA.

Stamina growing either upon the ſtyle, or on the receptacle elongated in the form of a ſtyle, ſupporting both ſtamina and piſtillum.

I. DIANDRIA.

Stamina 2.

Germen below the corolla, twiſted. Petals 5; the 2 interior uſually meet and form a helmet, the under lip of which becomes a nectarium, and ſupplies the place of a piſtillum and ſixth petal. The ſtyle, adhering to the inner margin of the nectarium, is ſcarce diſtinguiſhable. Filaments 2, very ſhort. Capſule unilocular, trivalve. Seeds numerous, very ſmall.

ORCHIS. Calyx 0. Nectarium corniform, behind the flower, fixt to the receptacle between the petals. Leaves vaginal. Flowers in ſpikes. Stem ſimple, ſingle.

* *Bulbs of the root not divided.*

1. Bifolia. *Butterfly Orchis.* Root double, conical. Stem about a foot and a half high, ſcaly. Leaves generally 2, long, and 2 or 3 inches broad. Flowers white, yellowiſh, in long thin ſpikes; ſpur very long and ſlender; petals ſpreading, fragrant. May, June.

June. P. In wet paſtures, &c. *Ger.* 211. 2. *Eng. Bot. tab.* 22.

2. Pyramidalis. *Purple late O.* Root a double bulb. Stem a foot high. Radical leaves about 4 inches long, and half an inch broad; floral leaves ſhorter than the flower. Flowers pale purple, in ſhort compact ſpikes; lip of the nectarium trifid; ſpur long. June, July. P. In dry chalky paſtures. *Ger.* 210. 4. *Eng. Bot. tab.* 110.

3. Morio. *Female Fool's O.* Root a double bulb. Stem from 6 inches to a foot long. Leaves long, narrow, pointed. Flowers white, red, or violet, few, on a ſhort, thin ſpike; lip of the nectarium quadrifid, notched; ſpur obtuſe; petals all connivent. May, June. P. In wet meadows. *Curt.* iii. 59.

4. Maſcula. *Male Fool's O.* Bulbs large. Stem a foot high. Leaves broad, elliptical, generally ſpotted with black. Flowers large, purple, on long looſe ſpikes; dorſal petals reflex; lip of the nectarium quadrifid, notched; ſpur horizontal, obtuſe. May. P. In meadows, &c. *Curt.* ii. 62.

5. Uſtulata. *Little purple O.* Bulb double, ſmall. Stem 8 or ten inches high. Leaves obtuſe. Flowers ſmall, in a ſhort denſe ſpike, purple and white; lip of the nectarium quadrifid, with red ſpots; petals diſtinct; ſpur obtuſe, ſhort. May, June. P. In dry paſtures, &c. *Ger.* 207. S. Br. *Eng. Bot. tab.* 18.

6. Militaris. *Man O.* Bulb double. Stem a foot high. Leaves not ſpotted, elliptical,

cal, obtuſe. Flowers greyiſh white, or dark purple; petals confluent; lip of the nectarium quinquifid, with purple ſpots; ſpur obtuſe. June. P. On chalk hills. *Ger.* 205. 2. S. Brit. *Eng. Bot. tab.* 16.

** *Bulbs palmated.*

7. Latifolia. *Male-handed O.* Stem hollow, a foot and half high. Leaves broad, elliptical. Spike long, denſe, obtuſe. Floral leaves longer than the flower. Flowers purple; lateral petals curled upward; lip of the nectarium trilobed, ſerrated; lateral lobes reflex. Spur conical, very thick. May, June. P. In meadows, &c. *Curt.* v. 65.

8. Maculata. *Female-handed O.* Root ſpreading. Leaves ſpotted. Three exterior petals erect. Lip of the nectarium trifid, ſpur ſhorter than the germen; lateral lobes large, notched, plane. June. P. In wet meadows, &c. *Ger.* 220.

9. Conopſea. *Red-handed O.* Stem a foot high, or more. Leaves long, not an inch broad. Spike very long. Floral leaves broad at the baſe, narrow at the point. Flowers red; 2 petals ſpreading. Lip of the nectarium trifid; ſpur very ſlender, longer than the germen. June. P. In meadows, &c. *Ger.* 227. 5. *Eng. bot. tab.* 10.

*** *Bulbs faſciculated.*

10. Abortiva. *Purple Bird's-neſt.* Root fibrous, interwoven. Stem purple, near a foot long. Leaves purpliſh, ſmall. Flowers violet?

violet; lip of the nectarium oval, intire. May. P. In dry meadows. S. Brit.

SATYRIUM. Calyx 0. Nectarium ſcrotiform, behind the flower. Leaves vaginal. Flowers on a ſpike.

1. Hircinum. *Lizzard Flower*, or *Goat Orchis*. Root a double undivided bulb. Stem 2 feet high. Leaves large, pointed. Flowers greeniſh white, purple within. Lip of the nectarium trifid; the middle ſegment very long, like a beard. Spur very ſhort, obtuſe. June, July. P. On chalk hills. *Ger.* 210. 1. S. Brit. *Eng. Bot. tab.* 34.

2. Viride. *Frog Satyrion*, or *Orchis*. Root palmated. Leaves oblong, obtuſe. Stem a foot high. Flowers large, yellowiſh, green, with ſome purple. Spur ſhort, broad. May, June. P. In dry paſtures, &c. *Ger.* 224. 9. *Eng. Bot. tab.* 94.

3. Albidum. *White Satyrion*. Roots numerous, cylindrical, diſtich. Leaves elliptical, obtuſe, ſome on the ſtem. Spike long, compact. Flowers with 3 large white and 2 ſmaller greeniſh yellow petals. Spur very ſhort, tumid. Lip of the nectarium trifid, acute; middle ſegment largeſt. June. P. In moiſt meadows. *Fl. dan.* 115.

4. Repens. *Baſtard Orchis*. Bulbs fibrous, ſlender, branched. Stem a foot high. Radical leaves oval, like thoſe of the common plantain; on the ſtem very ſmall. Spike denſe, unilateral. Flowers greeniſh yellow; petals 4, hairy. June. P. *Lightf.* xxii. *p.* 520.

OPHRYS. Calyx 0. Nectarium pendent, longer than the petals, carinated behind. Two of the 5 petals exterior. Leaves vaginal. Flowers ſpicate.

* *Bulbs branched.*

1. Nidus Avis. *Bird's Neſt.* Bulbs fibrous, implicated. Stem a foot high, with a few brown ſcales, without leaves. Lip of the nectarium bifid. Flowers brown. Spike long. Apr. May. P. In woods, &c. *Ger.* 228. 1. *Eng. Bot. tab.* 48.

2. Corallorhiza. *Coral-rooted O.* Bulbs branched, waved. Stem 7 inches high, ſheathed, without leaves. Lip of the nectarium trifid. Flowers in a thin ſpike, green; ſtamina 4. *Lighf.* xxiii. *p.* 523. July, Auguſt. P.

3. Ovata. *Common Twayblade.* Bulb filbrous, implicated. Stem 8 or 10 inches high, with 2 oppoſite oval leaves, 2 or 3 inches from the ground. Spike long. Flowers green. Lip of the nectarium bifid. May, June. P. In moiſt woods, &c. *Curt.* 60.

4 Spiralis. *Triple Lady's Traces.* Bulbs oblong, aggregated. Stem 8 inches high, or more. Leaves long, acute, ſome on the ſtalk. Spikes generally unilateral. Flowers yellowiſh white. Lip of the nectarium undivided, notched. Fragrant. Aug. P. In dry paſtures. *Curt.* iv. 59. S. Brit.

5. Cordata. *Leaſt Twayblade.* Bulb fibrous. Stem 5 or 6 inches high, with 2 oppoſite, heart-ſhaped leaves. Flowers whitiſh. Lip of the nectarium bifid. July. P. On turf bogs in the North. *Pet.* 70. 11.

** *Bulbs round.*

6. Loeſelii. *Dwarf Orchis.* Bulbs roundiſh. Stalks naked, triangular. Leaves launce-ſhaped, 2, nearly the length of the ſtalk. Lip of the nectarium oval. Flowers yellowiſh green. July. P. On bogs, &c. S. Brit. *Eng. Bot. tab.* 47.

7. Paludoſa. *Leaſt Orchis.* Bulbs oval, curved. Stalks pentagonal, almoſt naked. Radical leaves 3 or 4, alternate, rough at the apex. Flowers yellowiſh green, in a cluſter, terminal; upper petal erect, arched. Lip of the nectarium reflex, intire. Bulbs with a root at the bottom. June, July. P. *Eng. Bot. tab.* 72.

8. Monorchis. *Yellow*, or *Muſk Orchis.* Bulb ſingle. Stalk naked, ſlender, from 4 to 8 inches high. Radical leaves 2 or 3. Flowers green yellow. Spur 0. July. P. In dry paſtures, but not frequent. *Fl. dan.* 102. S. Brit. *Eng. Bot. tab.* 71.

9. Anthropophora. *Green Man-Orchis.* Bulb double. Stalk a foot high, or more, with ſome leaves. Radical leaves long, narrow. Flowers greeniſh. Lip of the nectarium tripartite; middle ſegment longer, bifid. Spur. 0. June. P. On chalk hills. *Pet.* 68. 8. S. Brit. *Eng. Bot. tab.* 29.

10. Myodes. *Fly Orchis.* Bulb double. Stem 2 feet high, beſet, with long narrow leaves. Spike long, thin. Flowers reſemble a fly. Lip of the nectarium quadrifid. June—Aug. P. In dry paſtures. *Ger.* 213. 6. S. Brit. *Muſcifera* of Hudſon.

11. Apifera.

11. Apifera. *Bee O.* Stem leafy, 12 inches high. Lip of the nectarium quinquifid, dark purple. Leaves broader and ſhorter than in the Fly O. Apr. May. P. S. Brit. *Curt.* i. 66. *Eng. Bot. tab.* 64.

12. Aranifera. *Spider Orchis.* Bulb roundiſh. Stem leafy. Lip of the nectarium roundiſh, convex, hairy above, notched at the top. Rare. April, May. P. In chalky paſtures. *Eng. Bot. tab.* 65.

SERAPIAS. Calyx 0. Petals 5. Nectarium the length of the petals, oval, gibbous; baſe excavated, bifid; lip oval. Spur 0. Bulbs fibrous.

1. Latifolia. *Broad-leaved Helleborine.* Stem 2 feet high, ſmooth. Leaves oval, ſheathing, large. Flowers 30, on a looſe ſpike, pendant, browniſh green. Lip obtuſe, notched, equal with the petals. Fruit pendulous. July, Aug. P. In woods, hedges, &c. *Ger.* 442. 1.

2. Longifolia. *Long-leaved Helleborine.* Stem tall. Leaves ſeſſile, long, narrow, pointed. Flowers pendant, 20, on thin looſe ſpikes; lip of the nectarium obtuſe, longer than the petals. Aug. P. In woods, &c. *Ger.* 442. 1.

3. Enſifolia. *Sword-leaved H.* Stem 14 inches high. Leaves diſtich; floral leaves very ſmall. Flowers erect. Lip ſhorter than the petals. *Fl. dan.* 506. MUR.

4. Grandiflora. *White flowered H.* Flowers large, white, erect. Leaves enſiform. Lip obtuſe, ſhorter than the petals, with 3 prominent yellow lines. *Ger.* 442. June. P.

CYPRIPEDIUM.

CYPRIPEDIUM. Nectarium inflated, hollow, within the lower petal. Calyx 0. Petals 4 or 5, long, narrow, erect. Capsule oval, 3-angular.

1. Calceolus. *Ladies slipper.* Flower purple, of 4 petals. Stem 14 inches high. Leaves sheathing, hairy, ribbed. Lip like a yellow slipper. *Ger.* 443. 2. July. P. S. Brit. *Eng. Bot. tab.* 1.

II. HEXANDRIA.

Stamina 6.

ARISTOLOCHIA. Calyx 0. Corolla of 1 petal, ligulate, entire. Capsule large, beneath; cells 6.

1. Clematitis. *Slender Birth-wort.* Stem erect, 3 feet high round, scored. Leaves cordate, alternate, glossy, pale. Flowers 6 or 8, green-yellow. *Mill.* ic. 51. 1. July. Sept. P. WITH. S. Brit.

ZOSTERA. Spadix linear, bearing fruit on one side only. Calyx 0. Corolla 0. Stamina alternate. Seeds single, alternate.

1. Marina. *Grass Wrack.* Leaves very long, plane, narrow, growing under the water, and floating with the tide. June. August. P. On the coast. *Ger.* 1569. 8.

CLASS

CLASS XXI.

MONOECIA.

Male and female flowers on the ſame plant.

I. MONANDRIA.

Male flowers with one ſtamen.

ARUM. Calyx a ſpatha or half cone of 1 leaf, rolled up at the bottom, pointed at the top, large, coloured within. Spadix ſimple, clavated, coloured, naked above, female below, male in the middle. Corolla 0. This genus has generally been placed under the claſs Gynandria, many diſputes have ariſen among botaniſts on account of its unuſual ſtructure.

1. Maculatum. *Wake-Robin* or *Cuckow-pint.* Leaves gloſſy, large, arrow-ſhaped, often ſpotted, intire. Cone white, erect. Berries red, in a naked cluſter, on the top of the ſtalk. May. P. In hedges frequent. *Curt.* ii. 63.

ZANNICHELLIA. *Male.* Calyx 0. Corolla 0. *Female:* Calyx of 1 leaf. Corolla 0. Piſtilla 4. Seeds 4.

1. Paluſtris. *Horned Pondweed.* Stems jointed, with many branches. Leaves oppoſite, long, narrow, pointed. Flowers in the

alæ of the leaves, male and female together. July. A. In ditches, &c. frequent. *Fl. dan.* 67.

CALLITRICHE. Verna. *Vernal Starwort.* Vide *Monandria Digynia.*

CHARA. *Male.* Calyx 0. Corolla 0. Anthera below the germen. *Female.* Calyx 4 leaves. Cor. 0. Stigma quinquifid. One ſeed.

1. Tomentoſa. *Brittle C.* Fleſh colour. Stem 14 inches twiſted, flat, with oval prickles. Gritty in the mouth. In ditches and pools. June—Oct. A. *H. ox.* xv. 4. 9. S. Brit.

2. Vulgaris. *Stinking Water-horſetail.* Stem ſmooth, 8 or 9 inches, round, ſmooth, ſtriated, jointed. Leaves in whirls, long, narrow, dentated on the inner ſide. In ditches and pools. Jul. Aug. A.

3. Hiſpida. *Prickly C.* Stems numerous, 6 inches, round, ſtriated, twiſted, jointed, ſpinous. Leaves long, ſlender, jointed, in whirls, white-green. Ditches and pools. June—Oct. A.

4. Flexilis. *Flexile C.* Diaphanous, without ſpines. Stem 9 inches. Leaves in whirls, generally forked, ſmooth. Fructification ſingle or in pairs, in the fork of the leaves. June—Oct. A. In ponds, &c.

II. DIANDRIA.

Male flowers with two ſtamina.

LEMNA. *Male:* Calyx of 1 leaf, obtuſe, intire. Corolla 0. *Female:* Calyx as in the

the male. Corolla 0. Style 1. Capſule unilocular. Root a perpendicular, conical, hollow thread. N. B. In the *Genera Plantarum*, Linnæus makes one of the flowers hermaphrodite inſtead of male; if ſo, it belongs to the claſs *Polygamia*. The flowers are ſo minute and fugitive as very rarely to be ſeen.

1. Triſulca. *Ivy-leaved Duck's Meat.* Stem branched. Leaves launce-ſhaped, on pedicles, numerous, ſwimming on the water. Roots numerous, ſuſpended. May, June. P. In pools and ditches. *Ger.* 830.2.

2. Minor. *Leaſt Duck's Meat.* Leaf ſingle, ſeſſile, ſomewhat oval, very ſmall, with a ſingle root, ſwimming looſe in the water. June. A. On ponds frequent. *Ger.* 829.

3. Polyrhiza. *Great Duck's Meat.* Leaves ſingle, large, thick, ſomewhat oval, green above, deep purple beneath, with ſeveral roots to each, ſwimming looſe like the laſt. June, July. A. In ditches.

III. TRIANDRIA.

Male flowers with three ſtamina.

TYPHA. *Male:* in a cylindrical compact catkin on the top of the culm; proper calyx of 3 very narrow leaves. Corolla 0. *Female:* on a catkin below the male. Calyx a kind of radiate down. Corolla 0. Seed ſingle.

1. Latifolia. *Great Cats-tail*, or *Reed-mace.* Culm 6 feet high, firm jointed. Leaves thick, convex,

convex, 2 or 3 feet long, not quite an inch broad. Male and female catkin near each other. July. P. On the banks of rivers. *Curt.* iii. 61.

2. Anguſtifolia. *Narrow-Leaved Cat's-tail.* Leaves ſemicylindrical. Male and female ſpike remote, and ſlender. July. P. In pools and ditches. *Curt.* iii. 62.

SPARGANIUM, *Males:* numerous, collected in a roundiſh head, compact, imbricated; proper calyx of 3 leaves, linear, deciduous; corolla 0. *Female:* like the male. Fruit a dry berry, containing two hard ſeeds.

1. Erectum. *Great Bur Reed.* Stem firm, branched, 2 feet high. Leaves triangular, long, ſucculent, not quite half an inch broad. Male heads ſmaller than the female. July. Banks of rivers, ditches, &c. *Curt.* v. 66. Ramoſum Hudſon.

2. Natans. *Leaſt Bur Reed.* Stem ſimple, ſhort. Leaves flat, a foot long, ſwimming, obtuſe. heads few. July. In pools and ſlow rivers, but rare. *Simplex* of Hudſon.

Simplex. I think, a variety. *Curt.* v. 67.

CAREX. *Male:* catkin imbricated, oblong; calyx of 1 leaf, launce-ſhaped, acute, concave; corolla 0. *Female:* like the male, Nectarium inflated, tridentate. Stigmata 3. Seed ſingle, triangular, in the nectarium.

* *Spike ſingle, ſimple.*

1. Capitata. *Round headed Carex,* or *Cyperus Graſs.* Culm triangular, ſlender, ſhort. Leaves very

very narrow. Spike oval; male flowers at the top. June P. On wet commons. *H. ox.* viii. 12.

2. Pulicaris. *Flea Carex*, or *Flea Graſs*. Culm and leaves capillary. Capſules oblong, pointed, reflex, reſembling fleas. June. P. On Hampſtead heath, &c. *H. ox.* viii. 12. 21.

3. Pauciflora. *Few-flowered C.* LIGHTF. Culm 4 inches, ſomewhat triangular, ſmooth, ſtriated, with 2 leaves. Spike of 1 or 2 brown male flowers at the top, and 3 or 4 female green ones beneath. June. P. In mountainous heaths. N. Brit. vi. 77. *Lightf. Patula* of Hudſon.

Dioica. *Vide Dioecia tretrandria.*

** *Male and female on the ſame ſpikes* or *ſpiculæ.*

4. Incurva. *Curved C.* LIGHTF. Culm curved, 4 inches, 3 angular. Leaves 2 or 3, ſmooth. Spike 3-angular. Spiculæ cluſtered, with male flowers at the top. Involucrum 0. July. P. *Lightf.* xxiv. *p.* 544.

5. Diſticha. *Brown C.* Spike brown, compoſite, ſub-diſtich. Spiculæ oval, imbricated. 12 inches, 3-angular. Bractea nearly as long as the ſpike. May, June. P. HUDS.

6. Arenaria. *Sea Carex.* Spike compoſite. Culm triangular, about two feet high. Lower ſpiculæ more remote, with a longer leaf. Root creeping. June, July. P. In the ſand on the ſea-ſhore.

7. Leporina. *Naked Carex.* Culm naked, 2 feet high. Spike compoſite; ſpiculæ 5 or 8, compact,

compact, alternate, oval, ſeſſile, broad, compreſſed, ſoft, ſhort. Scales between the ſpiculæ imbricated, triangular, grey, with a yellow nerve. June, July. P. In wet meadows. *H. ox.* viii. 12. 29.

8. Brizoides. *Rough Carex.* Culm triangular, rough, a foot and half high. Leaves very long and narrow. Spike compoſite, diſtich, naked; ſpiculæ cylindrical, alternate, acute, contingent, compact, white or greeniſh. June. P. In fens, &c.

9. Vulpina. *Great Carex.* Culm triangular, naked, about a foot high. Leaves very long, narrow, ſharp edged, ſmooth. Spike ſupradecompoſite, an inch long, compact above, bearded; ſpiculæ 3 to 6, ſeſſile, broad, male above. July. P. Banks of rivers.

10. Muricata. *Prickly Carex.* Culm naked, triangular, 6 or 8 inches high. Leaves narrow, harſh, the length of the culm. Spike looſe; ſpiculæ ſeſſile, diſtinct, ſpinous. June. P. In moiſt woods, &c. *Fl. dan.* 284.

11. Remota. *Long-leaved Carex.* Culm weak, branched, leafy. Leaves very narrow and long. Spikes ſimple, ſmall, in the alæ of the leaves, ſeſſile; ſcales white, with a greeniſh line. Capſules 10 or 12 in each ſpike. Aug. P. In moiſt woods, &c. *Fl. dan.* 370.

12. Caneſcens. *Grey Carex.* Culm naked, compreſſed. Spiculæ remote, ſeſſile, obtuſe, compact, turgid. Capſules oval, obtuſe.

May—Aug. P. In hedges, moiſt woods, &c.

13. Paniculata. *Panicled Carex.* Culm triangular, harſh, 3 feet high. Leaves harſh, narrow. Panicle long, looſe, brown. June, July. P. On bogs, &c.

14. Spicatus. *Spiked. Carex.* Spiculæ roundiſh and cloſe together. Capſules ovate, acute. Root fibrous. Culm triangular. June. P. In bogs.

15. Diviſa. *Marſh Carex* Spike compoſite. Spiculæ round and ſomewhat diſtant, each ſupported by a leaf longer than the ſpike. Culm roundiſh. June, July. P. In ſea marſhes.

*** *Male and female on different ſpikes; the latter ſeſſile.*

16. Flava. *Yellow Carex.* Culm triangular, a foot high. Leaves long, ſmooth. Male ſpike, cylindrical, ſlender; females 2 or 3. Capſules acute, recurved, rigid. June. P. In wet meadows, bogs, &c. *Ger.* 17. 1.

17. Pedata. *Birds-foot Carex.* Culm naked, 6 inches high. Leaves narrow. Male ſpike terminal, ſlender, acute, red-brown; female ſpikes 2, 3, or 4, with few ſcales, not cloſely imbricated, containing about 7 floſcules. July. P. In bogs.

18. Montana. *Mountain C.* Female ſpikes ſeſſile, oval, ſub-ſolitary, near the male. Culm naked, 4 inches high. Capſule downy. Apr. P. *Ger.* 22. 8.

19. Tomentoſa. *Downy C.* Female ſpikes ſub-pedunculate. Capſules ſub-globular, downy.

downy. Male ſpike dark brown. Jul. P.

20. Pilulifera. *Round-headed C.* Spikes ſeſſile, terminal, compact, globular; male ſpike oblong. Leaves very ſlender. June, July. P. In meadows, &c. frequent.

21. Saxatilis. *Vernal C.* Culm rotundo-triangular, naked, a foot high. Leaves narrow. Spikes 3, oval, ſeſſile, alternate; male oblong; female black. April, May. P. In mountainous paſtures.

**** *Male and female on different ſpikes; the latter on pedicles.*

22. Atrata. *Black C.* Culm 12 inches, triangular. Leaves one-ſixth of an inch broad, harſh. Spikes half an inch long, almoſt black, terminal, pendulous. Stamina 2. Styles 3. June. P.

23. Limoſa. *Creeping Bog Carex.* Root jointed, creeping. Culm 12 inches high, triangular. Leaves linear, narrow. *Male* ſpike, terminal, cylindrical, brown; *female*, generally 2, oval below, pendulous when ſeeding. June, P. *Fl. dan.* 646.

24. Capillaris. *Capillary C.* Male ſpike erect; females 3, oblong, pendant when in ſeed, naked, pointed, on capillary peduncles. Culm when firſt flowering 2 or 3 inches high; afterwards 6 or 7. Jul. P. *Fl. dan.* 168.

25. Panicea. *Pink C.* Spikes pedunculate, erect, remote; female linear; capſules obtuſe. inflated. Culm 12 inches high. Scales bown, ſhorter than the capſule. Moſt ſubject to blite. June. P. *Fl. dan.* 443.

26. Palleſcens. *Pale Carex.* Culm leafy, a foot high. Leaves narrow, harſh. Spikes terminal, compact; male ſpike ſlender, acute, erect, greeniſh white; females yellowiſh, drooping, oval, imbricated, with capſules obtuſe, compact. June. P. In moiſt meadows, &c.

27. Pſeudo Cyperus. *Baſtard Carex.* Culm 3 feet high. Leaves ſpongy, large, near an inch broad. Spikes yellowiſh; male ſpike 2 inches long, with hairy pointed ſcales; females 2 or 3, pendent, with capſules double bearded. July. P. Banks of ditches, &c. *Ger.* 29. 2.

28. Diſtans. *Looſe Carex.* Culm triangular, a foot and half high. Leaves ſoft. Spikes very diſtant from each other; male ſpike terminal, obtuſe, not quite an inch long; females two or three, on ſhort pedicles, in the alæ of the leaves. June. On bogs.

29. Digitata. *Digitated Carex.* Culm triangular, compreſſed. Spikes linear, erect, male below and ſmaller than the female. Capſules diſtant. May, June. P. In woods and ſhady places.

30. Strigoſa. *Looſe Carex.* Spikes pedunculate, pendulous, male erect. Capſules roundiſh pointed. May, June. P. In woods and hedges.

31. Sylvatica. *Wood Carex.* Spikes pendulous, male erect, female filiform, ſhorter than the peduncle. Capſules bearded, forked at the end. May, June. P. In woods.

32. Diſtans. *Looſe Carex.* Spikes very remote, nearly ſeſſile, ſheathed by a floral leaf. Capſules angular, ſharp pointed. Leaves ſoft. June. P. On Turfy bogs.

33. Inflata. *Bottle Carex.* Spikes remote, on ſhort peduncles, a little upright, male erect, lanceolate. Capſules ovate, pointed, twice as long as the calyx. June, July. P. In marſhes.

34. Cæſpitoſa. *Turfy Carex.* Spikes cylindrical, growing by threes, almoſt ſeſſile, male terminal. Stalk triangular. May, June. P. In moiſt and woody paſtures.

35. Recurva. *Heath Carex.* Spikes cloſe together, cylindrical, a little pendulous, male terminating. Capſules imbricated and blunt at the end. Culm erect, triangular. May. June. P. In paſtures and on heaths.

***** *Male and female on different ſpikes; male ſeveral.*

36. Pendula. *Great pendulous C.* Female ſpikes very long, pendulous; capſules pointed. Culm 3 or 4 feet. Leaves half an inch broad, ſharp. Scales brown, with a green dorſal nerve. P. *Curt.* iii. 63.

37. Acuta. *Brown Carex.* Culm about 6 inches long, triangular. Spikes brown or black; females long and ſlender, alternate, on ſhort pedicles, except the lower ones. May. P. On the banks of rivulets, &c. *Curt.* iv. 61.

38. Riparia. *Great C.* Male ſpikes more than 1, with awn-taper-pointed ſcales; females with awn-pointed ſcale. *St. in With.* Leaves ſea-green. *Curt.* iv. 60.

39. Veſicaria. *Bladder Carex.* Culm triangular, 4 or 5 feet high. Leaves narrow, 2 feet long, and very harſh. Male ſpikes 2 or 3, very ſlender, 2 inches long, brown; females 2 to 4 yellow. Capſules inflated, pointed with a bifid neck. June. P. In fens, &c. frequent. *Fl. dan.* 647.

40. Hirta. *Hairy Carex.* Soft and hairy. Spikes remote, erect; males 2 or 3, compact; females 3, looſe, on ſhort pedicles in the alæ of the leaves. Capſules hairy, conical, bifid. June. P. In wet meadows, &c. *Fl. dan.* 425.

ERIOCAULON. *Common:* calyx imbricated; *proper*, of 2 leaves. *Males*, in the middle of the diſk, dipetalous, erect, obtuſe; ſtamina 4, inſerted in the corolla. *Females*, in the circumference, numerous; *corolla* monopetalous, bipartite; *germ.* above; *ſtyle* divided.

1. Decangulare. *Net-wort.* Culm 10-angular, a little twiſted, 12 to 18 inches, naked upwards, diaphanous, reticulate. Leaves 2 inches, enſiform, ſurrounding the ſtem at the baſe, under water. Lakes in the Iſle of Sky. Sept. P. *Lightf. Penn. Voyage to the Hebrides, Vol.* 1. *tab.* 39. *Naſmythia Articulata* of Hudſon.

LITTORELLA. *Males:* Calyx of 4 leaves. Corolla quadrifid, erect; ſtamina

mina very long, in the receptacle. *Females:* Calyx o. Corolla conical, trifid, perſiſting. Style very long. Seed a kernel.

1. Lacuſtris. *Plantain Shore-weed.* Root fibrous, long, running. Leaves 2 inches long, ſemicylindrical, linear, acute, in tufts. Stalks 3 or 4, one inch and half high, terminated bya green male flower; females ſeſſile at the baſe. July, Aug. P. *Fl. dan.* 170. LIGHTF.

IV. TETRANDRIA.

Male flowers with four ſtamina.

BETULA. *Male:* Calyx of 1 leaf, trifid, trifloral; corolla quadripartite. *Female:* Calyx of 1 leaf, ſub-trifid, bifloral. Catkin imbricated, cylindrical. Seed oval, winged.

1. Alba. *Birch Tree.* Bark white, ſmooth, gloſſy. Leaves on long foot-ſtalks, oval, pointed, ſerrated, gloſſy. July. In wet ſituations. *Ger.* 1478.

2. Nana. *Dwarf Birch.* A ſhrub, a yard high, bark brown. Leaves circular, with 10 to 14 notches, generally 3 from each bud. Catkins ſeſſile, oval, erect. *Lightf.* xxv. *p.* 575. N. Brit. July. On moiſt heaths.

3. Alnus. *Alder Tree.* Not large, nor erect. Bark ſmooth. Leaves round, without point, ſerrated, clammy, nervous. Peduncles branched. Cones brown. July. Near water frequent. *Ger.* 1477. 1.

BUXUS. *Male:* Calyx of 3 leaves; petals 2. *Female:* Calyx of 4 leaves; petals 3; ſtyles 3, very ſhort. Capſule with 3 beaks, trilocular. Seeds 2.

1. Sempervirens. *Box.* A low ſhrub. Leaves oval, gloſſy, thick. Flowers greeniſh white. April. In woods, but rare. *Ger.* 1410. S. Brit.

URTICA. *Male:* Calyx of 4 leaves. Corolla 0. Nectarium minute, central, urn-faſhioned. *Female:* Calyx bivalve, Corolla 0. Seed ſingle, oval, gloſſy.

1. Pilulifera. *Roman Nettle.* Stalk branched, 2 or 3 feet high. Leaves oppoſite, oval, ſerrated, ſtinging. Fruit globoſe. Aug. A. On waſte ground. *Ger.* 707. 1. S. Brit. *Eng. Bot. tab.* 148.

2. Urens. *Leſs Nettle.* Stem a foot high. Leaves roundiſh, deeply ſerrated, oppoſite, burning. Aug. A. In gardens, waſte ground, &c. *Fl. dan.* 739.

3. Dioica. *Vide Dioecia Tetrandria.*

V. PENTANDRIA.

Male flowers with five ſtamina.

XANTHIUM. *Male* flowers compoſite. Common calyx imbricated. Corollulæ monopetalous, tubular, quinquifid. *Female:* Calyx involucrum of 2 leaves. Corolla 0. Drupa dry, prickly. Nucleus bilocular.

1. Strumarium. *Leſs Burdock.* Stem a foot and half high, thick, often ſpotted. Leaves heart-ſhaped, lobed, on long foot-ſtalks. Flowers

Flowers male and female many together, in the alæ of the leaves. Aug. Sept. A. On waſte ground, but rare. *Ger.* 809. 2. S. Brit.

AMARANTHUS. *Males*: Calyx of 3 or 5 leaves, erect, coloured, ſharp. Stamina 3 or 5. *Females*: Calyx the ſame; corolla 0. Styles 3. Capſule 1—cell cut round. Seed 1.

1. Blitum. *Small red Blite.* Stamina 3. Cluſters lateral. Flowers trifid. Leaves alternate, oval, with a deep notch at the end. Stem diffuſe. Among rubbiſh. Aug. A. *Ger.* 321. 4.

VI. POLYANDRIA.

Male flowers with many ſtamina.

CERATOPHYLLUM, *Male*: Calyx of many ſegments. Corolla 0. Stamina very minute, 16 to 20. *Female*: Calyx like the male. Corolla 0. Piſtillum ſingle; ſtyle 0; ſtigma obtuſe, oblique. Seed ſingle, naked.

1. Demerſum. *Horned Pondweed* or *Water Milfoil.* Stem a foot long, much branched. Leaves ſeveral together in whirls, twice forked, harſh, thick. Branches collected at the top into a thick neſt. July. P. In ditches, &c. under water frequent. *Fl. dan.* 510.

MYRIOPHYLLUM. Calyx of 4 leaves. Corolla 0. Stamina 8. Piſtilla 4; ſtyle 0. Seeds 4, naked.

1. Spicatum

1. Spicatum. *Spiked*, or *feathered*, *Water Milfoil*. Stem round, hollow, jointed, ſtriated, branched, a foot and half long. Leaves feathered, 5 from each joint. Thoſe ſtalks which bear the flowers have no leaves. Male flowers on ſpikes, in ſmall diſtant cluſters. June, July. P. In ſtagnant water frequent. *Fl. dan.* 681. *Eng. Bot. tab.* 83.

2. Verticillatum. *Leſs Water Milfoil*. Reſembles the laſt, except that all the flowers grow in whirls, in the alæ of the leaves. Jul. P. In ditches, &c. frequent.——N. B. Sometimes the flowers are hermaphrodite. *Pet.* 6. 8. S. Brit.

SAGITTARIA. Calyx of 3 leaves. Petals 3. Stamina generally 24. Piſtilla very numerous; ſtyles very ſhort, Seeds many, naked. Male flowers above.

1. Sagittifolia. *Arrow-head*. Stem thick, ſpongy, ſtriated. Leaves arrow-ſhaped, on long foot ſtalks. Flowers white, large, generally 3 together, on ſingle pedicles. June. P. In ditches, &c. *Ger.* 416. 2. S. Brit. *Eng. Bot. tab.* 84.

POTERIUM. Male and female flowers on the ſame ſpike, the latter uppermoſt. Calyx of 3 leaves, coloured, ſoon falling off. Corolla of 4 ſegments, united only at the baſe. Stamina 30 or 40, long, ſlender. Piſtilla 2. Fruit a berry, formed of the tube of the corolla.

1. Sanguiſorba. *Burnet*. Some of the flowers hermaphrodite; ſtem angular, a foot high,

high, brown. Leaves pinnated, pinnæ about 10 pair with an odd one, ſerrated; middle rib hairy. Flowers purpliſh, on ſmall oval ſpikes. July. P. On chalk hills, &c. S. Brit. *Curt.* ii. 64.

QUERCUS. *Male* flowers on a ſoft catkin. Calyx quinquifid or quadrifid. Corolla 0. Stamina 5—10. *Female* flowers ſeſſile, in a bud. Calyx intire, hemiſpherical, rough. Corolla 0. Style ſingle. Seed oval, ſingle.

1. Robur. *Oak.* Leaves oblong, broadeſt at the top, deeply ſinuated, angles obtuſe, deciduous. April.

FAGUS. *Male* flowers on a catkin: Calyx campanulate, quinquifid. Corolla 0. Stamina about 12. *Females* in a bud: Calyx with 4 teeth. Corolla 0. Styles 3. Capſule with ſoft ſpines, and 4 valves. Seeds 2.

1. Caſtanea. *Cheſnut Tree.* Large, diffuſe. Leaves launce-ſhaped, pointed, ſharp-ſerrated, ſmooth beneath. May. In Kent frequent.

2. Sylvatica. *Beech.* A large tree. Bark ſmooth, white. Leaves oval, waved, ſcarce ſerrated. Catkin round. May.

CARPINUS. *Male* flowers on a cylindrical catkin. *Females* on an oblong catkin. Calyx a fringed ſcale. Corolla 0. Stamina

Stamina 20. Styles 4. Nut oval, angulated.

1. Betulus. *Hornbeam.* Bark ſmooth, white. Leaves oval, pointed, ſharp-ſerrated, nervous, ſmooth. Scales of the cones flat. May. *Ger.* 479.

CORYLUS, *Male:* Calyx a trifid ſcale, containing a ſingle flower. Corolla 0. Stamina 8. *Female:* Calyx of 2 leaves, lacerated. Corolla 0. Styles 2. Nut oval. Male flowers on a long catkin, female ſeſſile, in a bud.

1. Avellana. *Haſel-nut tree.* A tall ſhrub. Branched, downy. Leaves round, pointed, ſerrated, wrinkled, with two ſmall, oval, obtuſe ſtipulæ. March. *Ger.* 1438. 2.

VII. MONADELPHIA.

Male flowers with one ſet of united ſtamina.

PINUS. *Male* flowers in cluſters: Calyx of 4 leaves. Corolla 0. Stamina many. *Female:* Calyx the ſcale of a cone, containing two flowers. Corolla 0. Piſtillum ſingle. Nut furniſhed with membranaceous wings.

1. Sylveſtris. *Scotch Fir.* Leaves bluiſh, ſhort, two together, convex on one ſide, concave on the other. Cones pendulous, ſmall, whitiſh. May. In the Highlands of Scotland. *Ger.* 1356. 1.

2. Picea.

2. Picea. *Yellow leaved Fir.* Leaves ſolitary, emarginated. Cones upright. May, June. In the mountains of Scotland.

3. Abies. *Pitch tree.* Leaves ſolitary, awl-ſhaped, ſharp pointed, ſmooth, pointing two ways. Cones pendant. May, June. In the highlands of Scotland.

CLASS

CLASS XXII.

DIOECIA.

Male and female flowers on ſeparate plants.

I. DIANDRIA.

Male flowers with two ſtamina.

SALIX. *Male:* Calyx the ſcale of a catkin. Corolla o. A nectariferous gland in the center. *Female:* Calyx the ſame. Corolla o. Style very minute, bifid. Capſule unilocular, bivalve. Seeds numerous, downy.

* *Leaves ſmooth, ſerrated.*

1. Hermaphroditica. *Shining Willow.* Flowers hermaphrodite. Branches pale red. Veins on the upper ſide of the leaf hollow. March. In moiſt hedges near Aſton in Cumberland. S. Brit.

2. Pentandria. *Sweet Willow,* or *Bay leaved Willow.* Leaves odorous, on triangular vaginal foot-ſtalks, without auricles. Apr. On the mountains in the North.

3. Amygdalina. *Peach leaved Willow.* Branches firſt green, then deep purple, brittle. Leaves 5 or 6 inches long, on foot-ſtalks, with ſmall ſtipulæ. May. On the banks of rivers.

4. Fragilis.

4. Fragilis. *Crack Willow.* Leaves ſerrated, ſmooth, ovato-lanceolate; ſtalks with glandular teeth. A large tree: branches brittle at the joints. May.

5. Purpurea. *Red Willow.* A low tree. Twigs flexile, red. Leaves long, narrow, ſcarce ſerrated, with yellow nerves and foot-ſtalk, without ſtipulæ, ſomewhat downy beneath, alternate; lower leaves oppoſite. April. May.

6. Helix. *Yellow Dwarf Willow.* Bark yelloviſh. Twigs angular, purple. Leaves bluiſh beneath, generally oppoſite. Catkin more compact, downy, with black ſcales. Capſules ſhort, denſe, downy. May. Not common. *Ger.* 1389.

7. Herbacea. *Mountain Dwarf Willow.* The leaſt of all trees. Leaves orbicular, ſmooth, ſerrated, with yellow veins. Capſules large, purple, few. June. On the mountains in the North of England.

8. Vitellina. *Yellow Willow.* Leaves cartilaginous at their edges, petoiles dotted with callous points. May. In Willow beds.

9. Triandria. *Smooth Willow.* Flowers with three ſtamina. Leaves alternate, on foot ſtalks. Catkins on foot ſtalks, a little woolly. May. In hedges and by the banks of rivers.

** *Leaves ſmooth, intire.*

10. Reticulata. *Oval-leaved Mountain Dwarf Willow.* A ſmall ſhrub. Leaves almoſt round, ſomewhat hairy, above wrinkled, beneath

beneath whitiſh and reticulate; veins firſt red, then green. On mountains. June.

11. Rubra. *Red Willow.* Leaves launce ſhaped, very long. Catkins red at firſt but afterwards of a greeniſh yellow. April. May. In marſhes, but rather rare.

*** *Leaves intire, downy.*

12. Aurita. *Round-leaved Willow.* Leaves woolly on both ſides, with auricles. May. In woods and hedges. Hudſon makes this a variety of the Caprea.

13. Arenaria. *Sand Willow.* Leaves oval, acute; above downy, dark green; beneath woolly. Female ſpike an inch long. June. On ſandy ground.

14. Repens. *Creeping Willow.* Stem the thickneſs of a finger, creeping. Branches downy. Leaves launce-ſhaped, ſlightly hairy, or quite ſmooth, bluiſh beneath. Catkin lateral. Capſules reddiſh. May. *Eng. Bot. tab.* 183.

15. Fuſca. *Brown Willow.* Stem erect, a foot high; bark brown. Leaves narrow, villous, grey beneath. May, June.

16. *Roſmarini folio. Roſemary-leaved Willow.* Leaves ſeſſile, woolly beneath. May. Hudſon conſiders this and the preceding as varieties of the Repens.

**** *Leaves ſlightly ſerrated, downy.*

17. Caprea. *Common Sallow.* A moderate tree. Bark grey, rough. Leaves oval, wrinkled,

kled, woolly beneath, waved, ſome with and ſome without auricles. Catkin very thick. April, May.

18. Viminalis. *Oſier.* Branches dark, flexile, erect, long. Leaves very long, narrow, downy beneath, dark green above, with a yellow nerve. Female ſpikes ſeſſile, with ſilver-downy capſules. April.

19. Alba. *Common white Willow.* The talleſt tree of this genus. Bark ſmooth and whitiſh. Leaves launce-ſhaped, pale green above, white beneath. Branches brittle. Apr.

II. TRIANDRIA.

Male flowers with three ſtamina.

EMPETRUM. Calyx tripartite. Petals 3. Stamina long. Stigmata 9. Seeds 9, in a round berry.

1. Nigrum. *Black Crow*, or *Crake Berries.* A low weak ſhrub, much branched, procumbent. Leaves numerous, ſhort, obtuſe. Flowers green or reddiſh, in the alæ of the leaves. April, May. *Ger.* 1383. 9.

CAREX. For the generic character ſee *Monoecia Triandria.*

1. Dioica. *Small Carex.* Spike ſingle, ſimple, oblong. Culm and leaves ſlender, triangular. June. P. On bogs, &c. *Fl. dan.* 369.

VALERIANA. See *Triandria Monogynia.*

1. Dioica. *Small Wild* or *Marſh Valerian.* Root creeping. Stem ſtriated, a foot high. Radical leaves ſingle, oval; thoſe above

pinnated, intire. Flowers reddiſh white, in large tufts, terminal, and in the alæ of the leaves. June. P. In moiſt meadows. *Ger.* 1075. 3.

III. TETRANDRIA.

Male flowers with four ſtamina.

VISCUM. *Male:* Calyx quadripartite. Corolla 0. Filaments 0. Antheræ adhearing to the calyx. *Female:* Calyx of 4 leaves above the germen. Style 0. Stigma obtuſe. Corolla 0. Berry with one ſeed.

1. Album. *White Miſſel* or *Miſſeltoe.* A ſhrub, growing on the bark of ſeveral trees. Leaves conjugate, elliptical. Stem forked. Flowers whitiſh, in the alæ of the leaves. May. *Ger.* 1350, 1. S. Brit.

HIPPOPHAE. *Male:* Calyx bipartite. Corolla 0. *Female:* Calyx bifid. Corolla 0. Style 1. Berry with 1 ſeed.

1. Rhamnoides. *Sallow-thorn.* Leaves lanceolate, ſcaly. *Male* flowers below the leaves; *female* ſeſſile in the boſom of the lower leaves. A ſhrub 8 feet high; branches ſpreading, ſtraight, ſtiff, ſharp. April, May. On the ſands on the ſea coaſt. *Fl. dan.* 265. WITH. S. Brit.

MYRICA. *Male: female*: Catkin; ſcales lunated. Corolla 0. Styles 2. Berry with 1 ſeed.

1. Gale. *Sweet Willow dutch Myrtle.* Shrub 3 feet high. Leaves lanceolate, ſub-ſerrated. Buds

Buds of 9 ſhining ſcales. Smells like myrtle. May. In marſhes in Cornwall and Devonſhire. *Ger.* 1228

RHAMNUS. See *Pentandria Monogynia.*

1. Catharticus. *Buckthorn.* A tall ſhrub. Branches terminate in a ſpine. Leaves oval, pointed, ſerrated. Flowers ſmall, greeniſh, quadrifid. Berry round, black. *Ger.* 1337. 1.

URTICA. See *Monoecia Tetrandria.*

1. Dioica. *Common Nettle.* Stem ſquare, firm, 3 or 4 feet high. Leaves heart-ſhaped, long-pointed, ſerrated, beſet with ſtings. Flowers in long catkins. July. P. In hedges, &c. *Fl. dan.* 746.

IV. PENTANDRIA.

Male flowers with five ſtamina.

HUMULUS. *Male:* Calyx of 5 leaves, oblong, obtuſe. Corolla 0. *Female:* Calyx of 1 leaf, oval, large, intire. Styles 2. Seed 1.

1. Lupulus. *Hops.* A tall, ſlender, voluble plant. Leaves lobed, ſerrated, ſomewhat reſembling thoſe of the vine. June. P. In hedges frequent. *Ger.* 885. 1.

PIMPINELLA. Vide *Pentandria Digynia.*

1. Dioica. *Leaſt Burnet Saxifrage.* Umbels very numerous compound, and ſimple. Stem 6 inches high, with few leaves. Involucra 0.

Flowers yellowiſh or white. *Ger.* 1021. 3. WITH. May, June. P. In mountainous paſtures.

V. HEXANDRIA.

Male flowers with ſix ſtamina.

TAMUS, Calyx of 6 ſegments. Corolla o. Style trifid. Berry oval, trilocular. Seeds 2.

1. Communis. *Black Briony.* Root large. Stems ſeveral, long, ſlender, voluble. Leaves large, heart-ſhaped, gloſſy, dark green, on long foot-ſtalks. Flowers greeniſh. Berry red. June. P. In hedges. *Ger.* 871. S. Brit. *Eng. Bot. tab.* 91.

RUMEX. See *Hexandria Trigynia.*

1. Acetoſa. *Common Sorrel.* Stem ſimple, above a foot high. Leaves oblong, arrow-ſhaped, acid, on reddiſh foot-ſtalks. Flowers ſmall, reddiſh. June. P. In paſtures. *Ger.* 396. 1. *Eng. Bot. tab.* 127.

2. Acetoſella. *Sheep's Sorrel.* Stem 6 or 8 inches high. Leaves launce-ſhaped, generally hooked at the baſe. May—July. P. In paſtures, &c. *Curt.* v. 29.

VI. OCTANDRIA.

Male flowers with eight ſtamina.

POPULUS. Catkin oblong, looſely imbricated; ſcales lacerated at the edge. Filaments very ſhort; antheræ large. Stigma quadrifid. Capſule bivalve, bilocular. Seeds numerous, downy.

1. Alba.

1. Alba. *White Poplar.* A tall tree. Leaves large, dentato angulated, white and woolly beneath. March. *Hunt. evel.* 208. In woods and hedges.

2. Tremula. *Trembling Poplar,* or *Aſp.* Leaves roundiſh, ſmooth on both ſides, on long foot-ſtalks, with a double gland at the baſe. March. *Ger.* 1487. 3. In moiſt woods.

3. Nigra. *Black Poplar.* Leaves rhomboidal, ſmooth, ſerrated, pointed, dark green, on yellow foot ſtalks. March. Near rivers *Ger.* 1468. 2.

RHODIOLA. Calyx quadripartite. Petals 4. Nectaria 4. Piſtilla 4. Capſules 4. Seeds many.

1. Roſea. *Roſewort.* Root white, branched, ſmelling like a roſe. Stem ſimple, erect, covered with leaves, which are elliptical, ſharply ſerrated. Flowers ſmall, yellow, in umbels, terminal. June, July. P. On the mountains in the north of England. *Ger.* 532.

VII. ENNEANDRIA.

Male flowers with nine ſtamina.

MERCURIALIS. *Male.* Calyx tripartite. Corolla 0. Stamina 9 or 12; antheræ double. *Female:* Styles 2, reflex, cornuted. Capſule ſcrotiform, bilocular. Seeds ſingle.

1. Perrenis. *Dog's Mercury.* Stem ſimple, about a foot high. Leaves oppoſite, ſerrated, pointed,

pointed, rough, harſh. Catkins erect. April. May. P. In hedges, &c. *Curt.* ii. 65.

2. Annua. *French Mercury.* Stalk branched, 2 feet high. Leaves oppoſite, oblong, pointed, ſerrated, ſmooth. Catkins erect. Oct. A. On waſte ground frequent. *Curt.* v. 68.

HYDROCHARIS. *Male:* Spatha of two leaves, trifloral. Calyx trifid. Petals 3. Stamina in 3 ſets. *Female:* Calyx trifid. Petals 3. Styles 6. Capſule ſexlocular. Seeds numerous.

1. Morſus Ranæ. *Frog-bit,* or *Small Water Lilly.* Leaves reniform, with their foot ſtalk in the pelvis, thick, ſmooth, brown green, an inch in breadth, ſwimming on the water. Flower white. June. P. In ditches frequent. *Curt.* iii. 64.

VIII. DECANDRIA.

Male flowers with ten ſtamina.

CUCUBALUS. See *Decandria Trigynia.*

1. Otites. *Spaniſh Campaion,* or *Catchfly.* Stem two feet high. Radical leaves on broad footſtalks, in a circle on the ground; thoſe on the ſtem leſs, oppoſite, few. Flowers greeniſh; petals narrow, pointed, intire. July, Aug. P. In paſtures, &c. *Ger.* 593. 1. *Eng. Bot. tab.* 85.

LYCHNIS. See *Decandria Pentagynia.*

1. Dioica. *Red C. and White C.* Stem 3 feet high, hairy, branched, ſwoln at the joints. Leaves

Leaves oval, ſharp-pointed, hairy, waved. Flowers numerous, terminal, red in the male, generally white in the female plant. May—July. A. Woods and hedges frequent. *Curt.* ii. 32.

IX. ICOSANDRIA.

Male flowers with twenty or more ſtamina, inſerted in the calyx.

RUBUS. See *Icoſandria Polyginia.*

1. Chamæmorus. *Cloud Berry.* Stem ſimple, brown, ſcarce a foot high. Leaves ſimple, on long foot-ſtalks, large, lobed, indented, alternate, 4 or 5 in number. Flower ſingle, purple, terminal. Fruit red, reſembling a raſpberry. May, June. On bogs in the North. *Lightf.* xiii. *p.* 286.

X. MONADELPHIA.

Male flowers with one ſet of united ſtamina.

JUNIPERUS. *Male:* Calyx the ſcale of a catkin. Corolla 0. Stamina 3. *Female:* Calyx tripartite. Petals 3. Styles 3. Berry containing 3 ſeeds.

1. Communis. *Common Juniper.* A ſhrub, or tree. Bark reddiſh. Leaves ſmall, narrow, ſharp-pointed, 3 together, numerous, concave and bluiſh beneath. May. On heaths, &c. *Ger.* 1372. 1.

TAXUS. *Male:* Calyx the ſcales of a bud; Corolla 0. Stamina numerous. *Female:*

Style 0. ſtigma obtuſe. Fruit a ſingular kind of berry, with a ſingle ſeed, its apex prominent.

1. Baccata. *Yew-tree.* Bark reddiſh. Leaves deep green, long, narrow, cloſe, as if pinnated, ever-green. Apr. May. *Hunt. evel. p.* 378. 1.

XI. SYNGENESIA.

Male flowers with united antheræ.

RUSCUS. *Male:* Calyx of 6 leaves. Corolla 0. Nectarium oval, large as the calyx, inflated, perforated. Filaments 0; antheræ three. *Female:* Style ſingle. Berry trilocular. Seeds two.

1. Aculeatus. *Knee Holly,* or *Butcher's Broom.* Stem near 2 feet high, tough, woody, branched, ſtriated. Leaves numerous, dark-green, elliptical, very ſharp-pointed, half an inch long. Flowers on the back of the upper leaves, greeniſh. Berries red, large. March, Apr. In woods, heaths, &c. *Ger.* 907. S. Brit.

BRYONIA. *Male:* Calyx campanulate, quinquedentate. Corolla campanulate, quinquepartite. Filaments 3, very ſhort. *Female:* Style trifid. Berry oval, ſmooth. Seeds ſeveral.

1. Alba. *White Briony.* Root white, very large Stem ſlender, angular, voluble, branched. Leaves palmated, or pentangular, with triangular lobes, ſerrated, hard and rough. Flowers whitiſh green, ſmall, numerous.

numerous. Berry red. May, P. In hedges &c. *Ger.* 869.

GNAPHALIUM. See *Syngeneſia Polygamia Superflua.*

1. Dioicum. *Mountain Cudweed*, or *Cat's Foot.* Stem ſimple, 4 or 5 inches long, with ſeveral creeping ſhoots. Leaves in thick tufts on the ground, oblong, pointed, indented, downy beneath. Flowers in cluſters, terminal, white, or reddiſh. May. P. In dry mountainous paſtures, *Lightf.* xx. *p.* 470.

CLASS XXIII.

POLYGAMIA.

Flowers hermaphrodite, and alſo male or female flowers.

I. MONOECIA.

Polygamy on the ſame plant.

HOLCUS. *Hermaphrodite:* Calyx a huſk, containing two flowers, bivalve, rigid, beardleſs. Corolla a huſk, tender, hairy bearded, leſs than the calyx. Stamina 3. Styles 2. Seed 1. *Male;* Calyx a huſk, bivalve. Stamina 3. Corolla 0.

1. Lanatus. *Meadow Soft Graſs.* Culm a foot and a half high. Leaves downy. Huſk bifloral, downy; beard of the male curved. Panicle not diffuſe. Jun. P. In meadows, &c. *Curt.* iv. ii.

2. Mollis. *Creeping Soft-Graſs.* Culm procumbent. Leaves leſs downy, and panicle more diffuſe than the laſt. The beard of the male flowers jointed. July. Auguſt. P. *Curt.* v. 8.

ÆGILOPS. *Hermaphrodite:* Calyx a huſk, cartilaginous. Corolla a huſk. Stamina 3. Styles 2. Seed 1. *Male:* Calyx corolla and huſk like the hermaphrodite.

1. Incurva.

1. Incurva. *Sea Hard-Graſs.* Culm 6 inches high. Spike very ſlender, cylindrical, beardleſs, jointed, ſmooth, curved. Calyx uniſloral. Valves of the corolla placed contrary to the calyx. July. A. On the coaſt.

VALANTIA. Calyx 0. Corolla quadripartite. Stamina 4. Style bifid. Seed 1.

1. Cruciata *Croſſwort* or *Mugweed.* Stem in part procumbent, hairy. Leaves oval, pointed, hairy, 4 together. Flowers ſmall, yellow, on ſhort pedicles, in the alæ of the leaves, generally 8 on each pedicle. May, June. P. In hedges. *Eng. Bot. tab.* 143.

PARIETARIA. Calyx quadrifid. Corolla 0. Stamina 4. Style 1. Seed. 1. The hermaphrodite flowers two in each involucrum, with a female between; Involucrum of 6 leaves.

1. Officinalis. *Pellitory of the Wall.* Stem reddiſh, jointed, numerous, a foot high. Leaves numerous, alternate, ovato-lanceolate, hairy. Flowers ſmall, greeniſh, in the alæ of the leaves. May—Sept. P. On walls, &c. *Curt.* iv. 63.

ATRIPLEX. *Hermaphrodite:* Calyx of 5 leaves. Corolla 0. Stamina 5. Style bipartite. Seed 1. *Female:* Calyx of 2 leaves. Corolla 0. Style bipartite. Seed 1.

1. Portulacoides. *Sea Purſlane.* Stems procumbent, woody, purpliſh, hairy, a foot long. Leaves long, narrow, thick, whitiſh.

whitiſh. Flowers ſeſſile, greeniſh purple, on ſpikes. Aug. P. On the coaſt. *Ger.* 523. 2.

2. Laciniata. *Jagged Sea Orach.* Stem erect, cylindrical; leaves above, alternate, deltoide, dentate, hoary beneath. Terminal ſpikes bear hermaphrodite flowers; lateral ſpikes female. Calyx of the fruit, quinquedentate. Aug. A. On the coaſt. *Ger.* 325. 4. *Eng. Bot. tab.* 165.

3. Haſtata. *Wild Orach.* Female valves large, deltoide, ſinuated. Leaves deltoide, haſtate, ſinuated. Flowers ſmall, whitiſh, on long ſpikes. Auguſt, September. A. On waſte ground, &c. *Curt.* ii. 66.

4. Patula. *Narrow-leaved Orach.* Stem much branched, ſpreading. Leaves long, narrow, intire, pointed, broadeſt at the baſe. Valves of the ſeed dentated. Flowers, whitiſh, on ſpikes. On waſte ground. Aug. A. *Ger.* 326. 7.

5. Littoralis. *Graſs-leaved Orach.* Stem erect, Leaves very long, narrow, linear, intire. Aug. Sept. A. On the coaſt and on waſte ground. *Pet.* 7. 6.

6. Pedunculata. *Pediculated Sea Orach.* Stem forked, erect. Leaves launce-ſhaped, obtuſe, intire. Female calyx on a long pedicle. Aug. Sept. A. On the coaſt. *Pet.* 7. 8.

7. Serrata. *Serrated Orach.* Stem herbaceous, erect. Leaves linear, ſerrated. September. A. Among rubbiſh, and on the coaſt.

ACER.

ACER. *Hermaphrodite;* Calyx quinquifid. Corolla of 5 petals. Stamina 8. Piſtillum 1. Capſules 2 or 3. Seed ſingle, winged. *Male:* Calyx quinquifid. Corolla of 5 petals. Stamina 8.

1. Pſeudo-Platanus. *Sycamore tree,* or *greater Maple.* A tall tree. Leaves large, of 5 lobes, irregularly ſerrated, whitiſh beneath. Flowers yellowiſh green, in cluſters. May, June. *Hunt. evel. p.* 193.

2. Campeſtre. *Common Maple.* A ſmall tree. Bark rough, furrowed. Leaves lobed, notched, ſmooth on both ſides. Flowers in cluſters, on conjugate pedicles, terminal. May, June. In hedges. *ib.*

II. DIOECIA.

Polygamy on ſeparate plants.

FRAXINUS. Calyx quadripartite. Corolla 0. Stamina 2. Piſtillum 1. Seed 1.

1. Excelſior. *Aſh-tree.* Leaves pinnated, ſerrated. March, April. *Hunt. evel. p.* 145.

CLASS

CLASS XXIV.

CRYPTOGAMIA.

Fructification concealed.

I. FILICES, *Ferns.*

Fruit on the back or ſides of the leaves.

EQUISETUM. Fructifications terminal, peltate, orbicular, of many valves, burſting at the baſe, arranged in ovato-oblong ſpikes. Stem and leaves compoſed of tubes inſerted into each other at the joints.

1. Sylvaticum. *Wood Horſetail.* Stem near 2 feet high, ſpicate. Leaves, or rather briſtles, very ſlender, and numerous, with 8 or 10 whirls on each. April, May. P. In woods. &c. *Ger.* 1114. 5.

2. Arvenſe. *Corn Horſetail.* Proliferous ſtems, without leaves; thoſe on the reſt long and angular. Apr. P. In wet corn-fields, *Curt.* iv. 64.

3. Paluſtre. *Marſh Horſetail.* Stem a foot high, with 4 or 5 deep furrows, ſo as to ſeem angular. Leaves long, ſimple, often conſiſting of 10 or 12 joints. Spikes brown. June, July. P. *Ger.* 1114. 4.

4. Fluviatile.

4. Fluviatile. *River Horſetail.* Stem ſtriated, 3 or 4 feet high, an inch in diameter. Briſtles very numerous, generally ſimple, about 20 in each whirl, deeply furrowed. May. P. On the banks of lakes and rivers. *Ger.* 1113. 1.

5. Limoſum. *Smooth Horſetail.* Stem ſmooth, a foot and half high, naked in the ſpring, but afterwards producing 12 to 18 leaves. June. P. In fens, &c. *Ray. Syn. p.* 131.

6. Hyemale. *Rough Horſetail,* or *Shave-graſs.* Stem 2 or 3 feet high, without leaves or branches, furrowed, terminated by a brown ſpike. It has ſometimes a branch or two at the bottom. July, Aug. P. In fens, &c. *Ger.* 1113. 2.

OPHIOGLOSSUM. Spike jointed, diſtich; joints burſting tranſverſely.

1. Vulgatum. *Adder's Tongue.* A ſingle leaf, oval, thick, without rib, or veins, on a foot-ſtalk 4 inches long. Spike an inch or more in length, extremely ſlender, on a pedicle. May. P. In meadows, &c. *Ger.* 404. 1. 2. *Eng. Bot. tab.* 108.

OSMUNDA. Spike branched. Capſules globoſe, diſtinct, opening horizontally, collected in cluſters. Seeds numerous.

1. Lunaria. *Moonwort.* A ſingle radical pinnated leaf, near 2 inches long, on a foot-ſtalk of 4 inches or more; pinnæ lunated, 5 or 6 pair. From the inſertion grows a ſhort ſtalk, with many pedicles covered with yellowiſh capſules. May. P. In mountainous paſtures, &c. *Ger.* 405. 2.

2. Regalis.

2. Regalis. *Flowering Fern*, or *Oſmund Royal*. Root fibrous, implicated, blackiſh. Stems ſeveral, 4 feet high, bipinnated, not dentated. Capſules numerous, on buſhy, terminal ramifications. July, Aug. P. On bogs. *Ger.* 1331.

3. Spicans. *Rough Spleenwort*. Leaves ſeveral, launce-ſhaped, reclining, pinnatifid; ſegments intire, parallel. Seeds on the middle leaves only, which are more erect, brown, with two reddiſh lines parallel to the middle rib. Auguſt. P. In woods, and moiſt heaths. *Curt.* ii. 67.

4. Criſpa. *Stone Fern*. Leaves ſupradecompoſite; pinnæ alternate, firſt deeply notched, afterwards intire. On the under ſide two yellow lines parallel to the middle rib. Some leaves without ſeed. Aug. P. Among rocks in the North. *Fl. dan.* 496.

ACROSTICUM. Fructifications covering the entire diſk of the leaf.

1. Septentrionale. *Horned*, or *forked*, or *naked Fern*. Leaves ſimply divided, naked, linear, laciniated and curved at the top, 3 inches high, numerous. Aug. P. In the fiſſures of rocks in Wales, &c. *Ger.* 1561. 8.

2. Ilvenſe. *Hairy Fern*. Leaf ſub-bipinnated; pinnulæ obtuſe, oppoſite, united, hairy beneath, about 3 inches long. July.—October. P. In the fiſſures of rocks in Wales. *Fl. dan.* 391.

PTERIS. Seeds in lines near and parallel to the margin of the leaf.

1. Aquilina.

1. Aquilina. *Female Fern*, or *Brakes*. Leaf 3 or 4 feet high, ſupradecompoſite: Foliolæ pinnated; pinnæ launce-ſhaped, obtuſe, entire. Aug. P. In woods, and on commons. *Ger.* 1128. 2.

ASPLENIUM. Seeds in right lines, converging towards the middle.

1. Scolopendrium. *Hart's-tongue*. Leaves numerous, near a foot long, ſimple, pointed, heart-ſhaped at the baſe, intire; ſtalk hairy. Auguſt. P. Among ſtones, &c. *Curt.* i. 67.

2. Ceterach. *Spleenwort*. Leaf 4 inches high, without ſtalk, pinnatifid; lobes alternate confluent, harſh, pale green, ruſty on the back. May—November. P. On walls, fiſſures of rocks, &c. *Ger.* 1140.

* *Leaves pinnated.*

3. Trichomanoides. *Common Maiden-hair*. Root black, fibrous. Stem gloſſy, black. Leaves 6 inches high, pinnated, numerous; pinnæ roundiſh, notched. Rows of ſeed 3—5. May—November. P. On old walls, &c. frequent. *Ger.* 1146. 1.

4. Viride. *Green-ribbed Maiden-hair*. Leaves pinnated, pinnæ roundiſh, truncated at the baſe. June—October. P. On moiſt rocks, in Wales and in the North of England. HUDS.

5. Marinum. *Sea Maiden-hair*, or *Fern*. Leaves 3 inches high, pinnated; pinnæ; obliquely triangular, ſerrated; ſtalk ſhining, blackiſh.

blackiſh. June—October. P. On rocks on the coaſt. *Ger.* 1143. 4.

** *Leaves decompoſite:*

6. Ruta-muraria. *White Maiden hair.* Leaves two inches high, alternately decompoſite; pinnulæ rhomboidal, obtuſe, notched. Rows of ſeed 2 or 3. June—November. P. In the fiſſures of rocks. *Ger.* 1144. 3. *Eng. Bot. tab.* 150.

7. Adiantum-nigrum. *Black Maiden-hair.* Stem black, gloſſy. Firſt branches long, gradually decreaſing to a point, generally with 3 pair of pinnæ, alternate; pinnulæ oval, ſerrated, deep green above. Seeds white, in 3—7 rows. June—October. P. In ſhady places and on old walls. *Ger.* 1137. 1.

8. Lanceolatum. *Spear Spleenwort.* Leaves doubly pinnate, launce ſhaped, pinnulæ alternate, obovate, notched, the lower pinnulæ ſmaller than the others. May—October P. On old walls and rocks near St. Ives and in other parts of Cornwall.

POLYPODIUM. Seeds in roundiſh ſpots, diſpoſed in lines on the diſk of the leaf, parallel to the nerve.

* *Leaf pinnatifid, lobes united.*

1. Vulgare. *Common Polypody.* Leaves a foot high. Root long, ſcaly; a finger thick, hairy. Pinnæ launce-ſhaped, intire, or ſlightly ſerrated, gradually leſſening to the top. Seed-ſpots yellow, in rows parallel to the rib. June—October. P. At the roots of trees, &c. *Curt.* i. 68.

2. Cambricum.

2. Cambricum. *Jagged Polypody.* Leaves pinnatifid: pinnæ launce-ſhaped, jagged in a wood near Cardiff, Glamorganſhre. *Lightf.* and *Hudſon* call it a variety.

** *Leaves pinnated.*

3. Lonchitis. *Great Polypody*, or *Spleenwort.* Stem brown, chaffy. Pinnæ lunated, fringed, ſerrated, with appendages ending in a ſpine. The whole habit harſh and rough. Seed ſpots 12 pair or more. May—October. P. In fiſſures of rocks, &c. *Ger.* 1140.

*** *Leaves ſub-bipinnated.*

4. Phegopteris. *Wood P.* A foot high. Lower branches bending backward. Pinnulæ intire, ſharp-pointed, nervous; thoſe at the ends of the branches are confluent, irregular, long. June—November. P. Among ſtones in the northern counties. *H. ox.* 575.

5. Fragrans. *Sweet P.* Stem ſcaly. Leaf launce-ſhaped, denſe; lobes obtuſe, ſerrated. July—Oct. P. Near Keſwick in Weſtmoreland. S. Br.

6. Fontanum. *Rock P.* or *leaſt ſtone Fern.* About 4 inches high. Stem whitiſh, ſmooth, hard, firm. Pinnæ few, middle ones longeſt; pinnulæ roundiſh, bidentate, tridentate. June—October. P. In the fiſſures of rocks, &c.

7. Criſtratum. *Creſted P.* Pinnæ ovato-oblong; pinnulæ obtuſe, ſharp-ſerrated. Seeds on the upper pinnæ only. July—October. P. In woods, &c, *H. ox.* 3. 14. 3.

**** *Leaves bipinnated.*

8. Filix-mas. *Male P.* or *Fern.* A foot and half high. Stem ſcaly. Pinnæ numerous, regular, alternate, gradually leſs. Pinnulæ obtuſe, notched. Seed-ſpots 6 or 7. June—October. P. In woods, heaths, &c. *H. ox.* 14. 3. 6.

9. Filix-fœmina. *Female P.* Pinnulæ launce-ſhaped, diſtant, pinnatifid, acute. Seed-ſpots 5 or 6 pair. Segments ſerrated. June—Oct. P. In fens, &c. *H.* ox. 3. *p.* 579.

10. Thelypteris. *Marſh P.* Leaf ſub-bipinnated, pinnæ pinnatifid, intire. Stem about 10 inches, a little ſcaly when young. In the old plants the under ſide of the lobes are covered with brown capſules as in the genus *acroſticum.* July—October. P. In boggy grounds, LIGHTF.

11. Aculeatum. *Prickly P.* Stem ſcaly. Pinnulæ lunated, fringed, dentated, auriculated, ſpinous. Seed ſpots 12 pair or more. June—October. P. In woods, &c. *H. ox.* 14. 3. 15.

12. Rhæticum. *Stone P.* Pinnæ and pinnulæ remote; the latter launce-ſhaped, bifid, acute, hard, brittle. Angles of the pinnæ, &c. all acute. June—October. P. On craggy mountains in the northern counties. *Park.* 1043. S. Brit.

13. Fragile. *Brittle P.* Height 6 inches. Pinnæ remote; pinnulæ roundiſh, lobed, ſerrated.

ted. Seed-ſpots large, blackiſh, numerous. June—October. P. Among ſtones, in Wales and near Briſtol. *Fl. dan.* 401.

***** *Leaves ſupradecompoſite.*

14. Dryopteris. *Branched P.* A foot high. Pinnæ 3 together, bipinnated; pinnulæ intire. July—Oct. Among rocks, P. *Ger.* 1135. 3.

ADIANTUM. Seeds in oval ſpots, in the curled extremities of the leaves.

1. Capillus Veneris. *True Maiden hair.* Six inches high. Leaves decompoſite. Pinnæ alternate; pinnulæ wedge-ſhaped, lobed, on pedicles. May—October. P. On rocks. On Barry-Iſland, Glamorganſhire. *Ger.* 1143. 1.

2. Trapeziferme. *Shining Maiden hair.* Leaves ſupra decompoſite, primæ alternate; pinnulæ with deep notches on each ſide of the fructification. Pedicles ſhining and of a black colour. June—October. P. on rocks in Scotland.

TRICHOMANES. Calyx turbinated, ſingle, terminated by a ſtyle like a briſtle, on the very edge of the leaf.

1. Pixidiferum. *Cup T.* Leaves ſhort, procumbent, pellucid, ſub-bipinnated: pinnulæ alternate, cloſe, lobed, linear. October. P. Among ſtones in wet ground. S. Brit.

2. Tunbrigenſe. *Tunbridge T.* Leaves ſhort, procumbent, pellucid, pinnated: pinnulæ oblong, dichotomous, decurrent, dentated. Seed-globules between two valves.

Near Tunbridge and in the fiſſures of moiſt rocks in Wales, &c. Aug. P. *H. ox.* 15. 7. *f.* 50. *Eng. Bot. tab.* 162.

PILULARIA. *Male* flowers in a line, like duſt, on the under ſide of the leaf. *Female*, at the root, globular, quadrilocular, containing many ſeeds.

1. Globulifera. *Pepper Graſs.* Roots creeping. Leaves like ruſhes, 3 or 4 inches long. Capſules like pepper-corns. June—Oct. P. In marſhy ground. Hounſlow heath, &c. *Fl. dan.* 223.

ISOETES. *Male:* antheræ at the baſe of the inner leaves. *Female:* capſule bilocular at the baſe of the external leaves. Seeds numerous.

1. Lacuſtris. *Quillwort.* Leaves jointed, ſemicylindrical, taper pointed, May—Sept. P. At the bottom of lakes on mountains in Wales, &c. *Dill.* 1. 80. 2.

II. MUSCI, *Moſſes.*

Antheræ without filaments. Female flowers diſtinct, without piſtillum. Seed a naked corculum.

LYCOPODIUM. *Club-moſs.* Antheræ bivalve, ſeſſile. Calyptra 0.

1. Clavatum. *Common C.* Stem creeping, branched. Leaves irregular, like threads or hairs. Spikes cylindrical, double, on a ſcaly pedicle. July. P. On heaths, &c. *Ger.* 1562. 11.

2. Sela-

2. Selaginoides. *Prickly C.* Stem procumbent. Branches 2 or 3 inches long, erect. Leaves narrow, irregularly diſpoſed, concave, fringed, acute. Spikes ſingle, terminal, leafy. On hills in the northern counties. June—Sept. P. *Fl. dan.* 76.

3. Inundatum. *Marſh C.* Stem creeping. Leaves irregular, intire. Spikes terminal, ſingle, leafy, erect. June—Sept. P. On wet heaths frequent. *Fl. dan.* 336.

4. Selago. *Fir C.* Stem erect, forked, flat at the top, reſembling a branch of the fir-tree. Leaves irregular, numerous, pointing eight ways, deep green. Antheræ diſperſed in the alæ of the leaves. April—October. P. On mountains in Wales and in the North. *Fl. dan.* 104.

5. Annotinum. *Welſh C.* Stem creeping. Branches erect. Leaves irregular, 5 together, ſlightly ſerrated, reſembling thoſe of the Juniper, reflex. Spikes erect, ſmooth, terminal, ſingle, without pedicle. June—September. P. On the mountains of Caernavonſhire. *Fl. dan.* 127.

6. Alpinum. *Mountain C.* Stem long, creeping. Branches numerous, two inches long, ſquare. Leaves, in quadruple order, imbricated, oval, concave, acute, hard. Spikes ſeſſile, cylindrical. Yellow when full grown. July—October. P. On Mountains. *Fl. dan.* 79.

SPHAGNUM. Antheræ globoſe; mouth intire, cloſed by an operculum or cover. Calyptra, or veil, o.

1. Paluſtre. *Grey Bog Moſs.* Spreads in large tufts ſoft. Branches numerous, ſhort, conic, reflex, pendulous. Leaves imbricated, cloſe, concave, triangular, obtuſe, white, ſometimes reddiſh. Antheræ brown, oval, on ſhort pedicles. July, Aug. P. On Peat bogs. *Fl. dan.* 474.

2. Alpinum. *Green Bog Moſs.* Very green. Branches ſubulate, erect. Antheræ oval. July—October. On bogs on Cader Idris and Snowden. *Dill. m.* 245. S. Brit.

3. Arboreum. *Creeping Bog Moſs.* Branched, creeping. Antheræ numerous, ſeſſile, hairy, along the branches, chiefly on one ſide. Nov. Dec. On the trunks of trees, &c. *Dill. m.* 32. 6.

PHASCUM. Operculum ciliated. Calyptra minute.

1. Acaulon, *Oval phaſcum.* Without ſtalk. Antheræ ſeſſile. Leaves oval, imbricated, congeſted in the form of a bulb. Jan—May. A. On ditch-banks, &c. *Curt.* iv. 66.

2. Subulatum. *Subulated Phaſcum.* Without ſtalk. Exterior leaves fine green, plane, not pointed, ſpread upon the ground: interior leaves triangular, pallid, ending in a brown hair. Antheræ ſeſſile, oval, very large, brown. March—May. A. On heaths, &c. *Curt.* iv. 67.

3 Repens. *Creeping Phaſcum.* Stem creeping, vermicular. Antheræ ſmall, in the alæ of the leaves. Leaves imbricated. May. P. On the trunks of trees in Yorkſhire. S. Brit. *Dill. m.* 85. 16.

4. Mon-

4. Montanum. *Mountain Phaſcum.* Without ſtalk. Antheræ ſeſſile. Lower leaves oblong, ſpreading, upper ones erect, lance-ſhaped, pointed. May—Aug. A. On rocks in Wales. *Dill. m.* 32. 13.

5. Curvicollum. *Crooked Phaſcum.* Without ſtalk. Antheræ on foot ſtalks bent downwards. Leaves ſpear-ſhaped, pointed. May. Near Croydon. *Dickſon,* i. 3.

6. Nitidum. *Shining Phaſcum.* Leaves ſubulate, aggregate. Antheræ on foot ſtalks a little longer than the leaves. Sept. A. On bogs on heaths. *Dicks.* i. 2.

FONTINALIS. *Water Moſs.* Antheræ with a pointed cover; mouth fringed. Calyptra ſmooth, ſeſſile, conic, incloſed in an imbricated perichætium.

1. Antipyretica. *Greater W. M.* Stem purpliſh. Leaves complicated, pointing 3 ways, concave on the outſide, ending in a pile. Antheræ minute, lateral, in the alæ of the leaves. June—Sept. P. In ſlow rivers, &c. *Dill. m.* 33. 1.

2. Minor. *Leſs W. M.* Differs from the laſt in being leſs, and the antheræ terminal. Sept. Oct. On the banks of the Thames near London. *ib.* 33. 2.

3. Squamoſa. *Scaly W. M.* Leaves imbricated, ſlender, pointed, ſilky, ſhining dark-green. Antheræ lateral. June—Octob. P. In rivulets in Wales. *ib.* 33. 3.

4. Pinnata.

4. Pinnata. *Feathered. W. M.* Branched. Leaves criſp, feathered, undulated, pointing two ways. Antheræ lateral, red-yellow. Aug.—October. P. On trees. *ib.* 32. 9.

5. Capillacea. *Hair like W. M.* Leaves linear, very fine, pointing one way, thoſe of the receptacle long, convoluted. In Mountain rivulets in Scotland. *Dill. m.* 33. 5.

6. Alpina. *Alpine W. M.* Leaves moſtly pointing one way, curled, ſhort, blunt. On rocks and ſtones in the rivulets of the Highlands of Scotland. *Dicks.* 2. 4. 1.

SPLACHNUM. Antheræ cylindrical, on a large coloured receptacle. Calyptra conic, caducous. Female ſtar on a ſeparate ſtem, with ſeveral ſhort coloured piſtilla.

1. Ampullaceum. *Common Splachnum.* Leaves pellucid, reſembling thoſe of Thyme. Antheræ erect, in pairs. Apr. On bogs. *Dill. m.* 44. 3.

2. Vaſculoſum. *Acorn S.* Filaments orange, and capſules dark-red. June—October. A. On Mountainous moiſt heaths. LIGHTF.

POLYTRICHUM. Antheræ with a cover, on a ſmall receptacle. Calyptra downy. Female ſtar on a ſeparate ſtem.

1. Commune. *Common P. or greater Golden Maiden hair.* Stem erect, ſimple. Leaves like thoſe of Juniper, hard and ſharp pointed. Calyptra yellow, large, conic, pointed,

double. Antheræ parallelopiped. P. May. On barren heaths. *Dill. m.* 54. 1.

2. Subrotundum. *Dwarf P.* Stem one-fourth to one-half an inch high, generally ſimple. Leaves linear, obtuſe, thick, rigid, ſerrated, dark-green. Filament reddiſh, 1 inch high; antheræ ſub-cylinlinical; pollen-gree. Dec.—Feb. *Curt.* ii. 68.

3. Alpinum. *Alpine P.* Stem much branched, Antheræ elliptical, terminal.—June, July. P. In mountainous heaths, in the north of England, and in Wales. *Dill.* 55. 4.

4. Urnigerum. *Branched P.* Stem very much branched. Antheræ on pedicles in the alæ of the leaves. June, July. *Dill.* 55. 5. It is found with the former, of which Hudſon makes it a variety.

5. Striatum. *Striated P.* Stem branched, from half an inch to two inches high, covered with lanceolate, acute, ſtriated leaves. Filaments very ſhort; antheræ erect, oval; operculum yellow, pointed. Mar. *Dill.* 55. 8. 9. 10. LIGHTF. On trees and rocks.

MNIUM. *Male:* antheræ on a radicle pedicle, with a cover; calyptra ſmooth, oblong, oblique, pointed. *Female:* a naked bulb, without calyptra or cover, ten on a different ſtem.

1. Pel-

1. Pellucidum. *Traſparent Mnium.* Stems ſimple, ſome erect. Leaves oval, pointed, ſeſſile, ſtrong green, pellucid. Briſtle from the apex an inch long. Calyptra erect, yellow above, very white below. operculum conic. January—July. A. On the trunks of old trees, &c. *Dill.* 31. 2.

2. Paluſtre. *Marſh Mnium.* Stem purpliſh, mealy, forked. Leaves ſpreading, triangular, carinated. Female briſtles numerous, yellow. Male briſtles one inch and a half long, purpliſh. Calyptra ſlender, yellowiſh. June, July. P. On marſhy ground. *Dill.* 31. 3.

3. Androgynum. *Upright Mnium,* or *cluſter-headed Goldilocks.* Stem branched, androgynous, naked below. Leaves ſmall, narrow, in tufts, terminal. Calyptra white. Mar. Apr. A. In woods, &c. *Dill.* 31. 1.

4. Fontanum. *Fountain M.* Stem red, 4 or 5 inches high, branched. Leaves one-twelfth of an inch long, lanceolate, acute, white-green. Filaments 2 inches, red; antheræ greeniſh. On the verge of cold ſprings. June, July. P. *Dill.* 44. 2. LIGHTF. *Bryum* of *Hudſon.*

5. Hygrometricum. *Yellow-bulbed M.* Stem 0. Antheræ nodding; calyptra reflex, tetragonal. Leaves ovato-acute, conniving in the form of a ſcaly bulb. Filaments reflexed and twiſted in moiſt weather. *Dill* 52. 75. A. LIGHTF. In woods and on heaths, *Bryum* of *Hudſon.*

6. An-

6. Annotinum. *Lancet-leaved M.* Stem 1 inch long. Leaves pellucid, intire, divided by a nerve, alternate, diſtant. Filament 1 inch long, red. Antheræ pendulous, oval. *Dill.* 50. 68. LIGHTF. March, April. P. Woods and ſhady places. *Bryum* of *Hudſon.*

7. Hornum. *Swan's Neck M.* Stems from 1 to 2 inches high, generally ſimple. Leaves one ſixth of an inch long, lanceolate, acute, pellucid, divided by a nerve, finely ſerrated. Filaments 1 to 2 inches long, tawny, from the ſummit of the ſtem, finally curved. *Dill.* 50. 68. *Curt.* i. 71. April, May, P. In moiſt woods. *Bryum. Huds.*

8. Crudum. *Spear leaved M.* Stem red, half an inch long. Leaves alternate, pale green, tender, pellucid, intire. Filaments terminal, half an inch long, pale red. April—June. P. In Wales, and in the mountains of the north. *Bryum* of *Hudſon. Dill. m.* 51. 70. LIGHTF.

9. Serpyllifolium. *Thyme-leaved M.* Stems long, proſtrate, creeping. Leaves alternate, diſtant, oval, fine green, with a red nerve and margin. Filaments or ſingle, or 2, or 3, or 4. April. P. *Dill.* 53. 81. LIGHTF. In woods and on moiſt heaths. *Bryum* of *Hudſon.*

10. Triquetrum. *Pendulous M.* Stem 1 to 3 inches long. Leaves trifarious, lanceolate, acute, carinated, intire. May, June. P. In bogs and marſhes. *Bryum* of *Hudſon. Dill.* 51. 72. 73.

11. Tri-

11. Trichomane. *Fern. M.* Leaves diſtich, intire. April—October. P. In woods and moiſt ſhady heaths. *Dill.* 31. 5.

12. Fiſſum. *Forked M.* Stem creeping. Leaves roundiſh, bifid, otherwiſe like the laſt. March—Octob. P. In moiſt and ſhady places. *Dill.* 31. 6.

13. Jungermania. *Purple M.* Stem ſimple, procumbent. Leaves imbricated, alternate, intire, appendiculate, diſtich. March—Auguſt. P. On mountains and in rivulets. *Jungermania purpurea* of Lightf. *Dill.* 69. 1.

14. Oſmundaceum. *Oſmund M.* Stem ſimple without a rib, like *Oſmunda ſpicant* upright, pinnated, bearing fruit at the ends, pinnæ in two rows, launce-ſhaped, very intire. April—June. B. Under old hedges in a rich ſoil; on the road from Zele to South Tawton 4 miles from Okehampton. Devon. *Dicks.* 1. 4.

BRYUM. Antheræ with a conic cover. Calyptra ſmooth. Filament or pedicle from a tubercle at the termination of the ſtem or branch.

* *Antheræ ſeſſile.*

1. Apocarpum. *Hairy. B.* Branched. Leaves imbricated, deep green, terminating in a hair. Antheræ dark red, ſeſſile. Calyptra very ſmall. December.—April. P. On ſtones and trees in the North. *Dill.* 32. 4. 5.

** *Antheræ on pedicles, erect.*

2. Pomiforme. *Round headed B.* Stems not quite an inch long, in thick tufts. Leaves generally pale, undulated, ſlender. Pedicle from the ſummit, reddiſh. Antheræ ſpherical, ſulcated, brown with a red cover. Feb.—April. A. On Hampſtead heath, &c. *Dill.* 44. 1.

3. Pyriforme. *Pear-headed B.* Leaves pale yellow, oval, carinated, ſeſſile, pellucid, broad. Antheræ turgid. Calyptra with a long horn. Feb. Mar. A. Common. *Dill.* 44. 6. On heaths, &c.

4. Extinctorium. *Conic B.* Stem an inch long. Leaves capillary, hooked. Antheræ erect, oblong. Calyptra looſe, ſhaped like an extinguiſher. Octob.—Auguſt. A. On mountainous heaths and rocks in Wales and Yorkſhire. *Dill.* 45. 8.

5. Subulatum. *Subulated B.* Branched from the root, without ſtems. Leaves capillary, pellucid. Antheræ erect, long, ſubulate, curved. Calyptra brown. In woods, &c. *Dill.* 45. 10. *Curt.* iii. 60.

6. Rurale. *Grey B.* Erect. Leaves recurved, with a grey hair at the apex. Antheræ long, acute, curved like a bird's claw. Dec.—April. P. On walls, and trunks of trees. *Dill.* 45. 12.

7. Murale. *Wall B.* Differs from the laſt only in being leſs, and the leaves and bill leſs curved. Feb.—April. On walls, &c. *Dill.* 45. 14.

8. Barbatum.

8. Barbatum. *Bearded B.* CURT. Stems half an inch long, erect, leafy. Leaves denſe, lanceolate, pointed. Filaments (half an inch) from the bottom or middle of the ſurculus, red, ſhining. Ciliæ ſcarlet, twiſted. Dec.—Feb. P. On walls. *Curt.* iv. 65.

9. Scoparium. *Broom B.* Stems reclining. Leaves ſubulate, curved, on one ſide. Antheræ almoſt erect; pedicles aggregated. Mar. Apr. P. On old trees, heaths, &c. *Curt.* i. 69.

10. Undulatum. *Curled B.* Leaves launce-ſhaped, carinated, undulated, ſpreading, ſerrated. Antheræ a little curved, reddiſh. Octob.—April. P. Shady banks and at the roots of trees in woods, &c. *Curt.* i. 70.

11. Glaucum. *White B.* Branched. Leaves erect, imbricated, numerous. Antheræ a little curved on very ſhort pedicles. Operculum arched. Aug—Nov. P. On moors. *Dill.* 46. 20.

12. Pellucidum. *Pellucid B.* Stalk hairy, branched. Leaves pellucid, ſlender, curved, acute. Antheræ not quite erect. June—Sept. P. On bogs, &c. *Dill.* 46. 23. 24.

13. Aciculare. *Mountain B.* Leaves fine green, erect, chiefly turned to one ſide. Antheræ erect, cylindrical. Briſtes yellow. Calyptra very acute. Operculum long, like a needle. Aug. P. On mountains in Wales, and North of England. *Dill.* 46. 25.

14. Flex-

14. Flexuoſum. *Soft B.* Leaves like hair. Pedicles twiſted. Antheræ erect, oblong. April—June. P. On rocks near Llanberris. *Dill.* 47. 33.

15. Heteromallum. *Heath B.* Leaves like hair, turned one way. Antheræ erect. March—May. A. Heaths, roots of trees, &c. *Dill.* 47. 37.

16. Laterale. *Lateral B.* Stem 1 inch long, erect. Leaves capillary, reclining, numerous, ſoft. Peduncles very ſhort, red; antheræ erect, lateral; capſule erect, large, ſhort, brown. July—September. P. In woods, and on the banks of rivulets in Scotland. *Fl. dan.* 538. 3. LIGHTF.

17. Tortuoſum. *Twiſted B.* Leaves long, narrow, curled, without hairs, yellow when old. Pedicles, from the extremity of the ſtem, purpliſh, an inch long. Antheræ erect, almoſt cylindrical; operculum creſted, with a few red hairs. Auguſt—October. P. Heaths, and on rocks in mountains. *Dill.* 48. 40.

18. Cirratum. *Star-topped frizzled B. Mnium* 0 *Lin.* Differs very little from the preceding except in being leſs.

19. Setaceum. *Pale ſtar-topped B. Mnium* of *Lin.* and *Hudſ.* Stems half an inch long, branched at top. Leaves in a ſtar at the top of the branches. Antheræ erect, oblong, operculum filiform, length of the antheræ. March. A. *Dill.* 48. 45. LIGHTF.

20. Truncatulum. *Brown B.* One of the leaſt. Stems numerous, very ſhort. Leaves narrow, taper, curled. Pedicles, from the center of the tufts, yellow. Antheræ erect, red, much truncated when without its cap. On ditch banks, &c. Feb—Sept. A. *Curt.* ii. 70.

21. Viridulum. *Green B.* Differs from the laſt in being of a finer green. Antheræ oval, yellow and fringed. Dec.—Mar. A. Hedge-bottoms, &c. *Curt.* ii. 71.

22. Paludoſum. *Dwarf B.* Among the leaſt. Without ſtalk. Leaves narrow, taper. Antheræ very obtuſe, ſpreading, brown, on very ſhort pedicles. Mar.—May. A. On bogs in Yorkſhire. *Dill.* 49, 53.

23. Hypnoides. *Woolly B.* Stem not quite erect. Lateral branches ſhort, fertile. Leaves acute, carinated, woolly. Antheræ, on ſhort lateral pedicles, erect, but ſoon pendulous, oval. Dec. P. On mountains in Wales, and in the North. *Dill.* 47. 32.

24. Verticillatum. *Verticillated B.* Antheræ erect. Pedicles twiſted when dry. Leaves hairy. Shoots all of one length. May—Aug. P. On moiſt rocks in Yorkſhire. *Dill.* 47. 35.

25. Æſtivum. *Water B.* Leaves ſubulate, diſtant. Antheræ erect, roundiſh, from the alæ. March. P. In fens. *Dill.* 47. 39.

26. Purpureum. *Purple B.* *Mnium* of *Lin.* and *Hudſ.* Stems erect, near 1 inch long, bifid. Leaves ſubulate, patent, in ſtars

at

at the top of the branches. Peduncles numerous, erect, 1 inch, bright red. Capſule, operculum and calyptera, red. March, April. A. On walls, heaths, and dry paſtures. *Dill.* 49. 51. 52. LIGHTF.

27. Acutum. *Pointed B.* Antheræ erect, roundiſh. Leaves ſetaceous, upright. Shoots branched, pointed. Octob.—June. In the mountains near Llanberis, and on the highlands of Scotland. *Dill.* 47. 34.

28. Brevifolium. *Short leaved B.* Antheræ erect. oblong, tapering. Leaves numerous, very narrow, ſhort, dark green. In bogs. *Dill.* 47. 39.

29. Calcareum. *Calcareous B.* Without a ſtem. Capſules erect, inverſely conical, dentate. Leaves erect, cylindrical, obtuſe. On limeſtone rocks near Newmarket heath. *Dicks.* 4. 3.

30. Curviroſtrum. *Crooked beaked B.* Antheræ erect, oblong, crenated. Beak of the calyptra ſlightly bent back. Leaves launce-ſhaped, expanding, the upper ones the longeſt. Aug. P. Dry woods, &c. *Dill.* 48. 45.

31. Dealbatum. *Criſped B.* Antheræ erect, roundiſh, ſomewhat bent inwards, dentate and ciliated. Leaves launce-ſhaped, expanding, of a pale colour. On the mountains in Scotland. *Dicks.* 5. 3. *a. b. c.*

32. Ericetorum. *Heath B.* Antheræ erect, ovato-oblong. Leaves launce-ſhaped, twiſted when dry. Turfy-heaths in Scotland. *Dill.* 45. 13.

33. Flaveſcens. *Yellowiſh B.* Antheræ erect, cylindrical, fringed. Shoots ſimple. Leaves ſpear-ſhaped, keeled. Bogs in the Highlands of Scotland. *Dicks.* 4. 5. *a. b.*

34. Heimii. *Heimius's B.* Antheræ erect, oblong. Calyptra obliquely beaked. Leaves ſpatulate, ſharp pointed, dentated. Sandy places in northern ſituations. Feb.—June. P. *Hedw. Stirp.* i. 30.

35. Imberbe. *Beardleſs B.* Antheræ oblong without beards. Leaves ſpear-ſhaped, expanding, pale green, bent back. March, April. A. ſandy heaths. *Dill.* 48. 46.

36. Obtuſum. *Blunt B.* Antheræ erect, inverſely egg-ſhaped, obtuſe. Calyptra convex. Leaves ovato-lanceolate, pointed. Stones and rocks on Ben Crechan, Scotland. *Dicks.* 4. 7. *a. b.*

37. Ovatum. *Egg B.* Antheræ erect, ovate. Leaves ovate, concave, terminated by hairs. April, May. On mud walks. *H. Ox.* xv. 7. 18.

38. Patens. *Expanding B.* Antheræ erect, pyriform, fringed, peduncles very ſhort. Shoots almoſt erect. Branches ſpreading and nearly of the ſame length. On rocks in mountainous rivulets. On Ben Nesis, Scotland. *Dicks.* 4. 8. *a. b.*

39. Puſillum.

39. Pusillum. *Dwarf B.* Antheræ erect, oblong, fringed. Leaves concave, egg-shaped, pointed. Feb. Mar. A. In sandy places. *Hedw. Stirp.* i. 28.

40. Reticulatum. *Net work B.* Antheræ erect, pyriform, dentated. Leaves ovate, serrated, reticulate, distant. In the Highlands of Scotland. *Dicks.* 4. 6. *a. b.*

41. Rigidum. *Rigid B.* Without a stem. Antheræ erect, cylindrical. Leaves narrow, spreading, convex, stiff like those of heath. Nov.—July. P. On moist rocks. *Dill.* 49. 55.

42. Splachnoides. *Splachnum B.* Antheræ erect, inversely egg-shaped, dentate. Leaves numerous, erect, bristly, bent back. On rocks in Scotland. *Fl. dan.* 538. 2.

43. Stellatum. *Starry B.* Without stem. Antheræ erect, pointed, bearded. Leaves ovato-lanceolate, somewhat rolled in. In Scotland. *Dill.* 49. 56.

44. Tetragonum. *Square B.* Antheræ nearly erect, somewhat globular. Shoots four cornered, zigzag like a climbing plant. Leaves imbricated, narrow. Ben Lomond, Scotland. *Dicks.* 4. 9. *a. b.*

45. Trichodes. *Bog B.* Antheræ nearly erect, pyriform, crooked. Peduncle very long. Leaves linear, obtuse. May, June. P. In wet meadows.

46. Unguiculatum. *Bird's claw B.* Antheræ erect, oblong. Calyptra pointed, oblique. Leaves linear, keeled. March, April.

A. On walls and in ſandy places. *Dill.* 48. 47.

47. Weiſia. *Weis's B.* Antheræ erect, oblong, ovate, with a fringed ring. Leaves pointing one way, linear, ſtiff. May, June. Woods and ſandy places. *Hedw.* 1. 8.

* * * *Antheræ pendulous.*

48. Argenteum. *Silver B.* Stems cylindrical, imbricated, ſmooth, ſilvery. Leaves minute, numerous, triangular, compact. Antheræ ſhort, oval, blackiſh. Operculum ſhort, conic. Octob.—Feb. P. On walls, &c. *Curt.* iii. 67.

49. Pulvinatum. *Grey B.* Leaves hairy. Antheræ roundiſh, pendulous, on ſhort pedicles. Apr. P. On walls. *Dill.* 50. 65.

50. Ceſpiticium. *Matted B.* Leaves ſubulate, briſtly. Antheræ pendulous, ſmall; pedicle very long, red below, green yellow above. On walls, &c. March P. *Curt.* iii. 67.

51. Capillare. *Capillary B.* Differs from the laſt in the antheræ being ſomewhat larger and the leaves broader and more compact. April, May. P. In woods and heaths in a dry ſoil. *Dill.* 50. 67.

52. Carneum. *Shining B.* Leaves acute, pellucid, alternate. Antheræ roundiſh, pendulous, pale red. Mar. P. On wet ground. *Dill.* 50. 69.

53. Simplex. *Red B.* Stem ſimple. Leaves ſubulate. Antheræ oblong, pendulous, on a pedicle from the middle of the ſtem. March,

March, April. A. Among graſs, but rare. *Dill.* 50. 59.

54. Alpinum. *Red Alpine B.* Stems one inch and half long. The entire plant dark red. Antheræ oblong, pendulous. Leaves oval, imbricate, pointed, carinated. April—June. P. On rocks where there is little earth; on the ruins of an old caſtle near Llanberris, and in the highlands of Scotland.

55. Cubitale. *Gigantic B.* The largeſt of all the Bryums. Antheræ pendulous, oblong. Shoots and peduncles bent inwards. Leaves ſagittate, pointed, ſpreading. On moiſt banks in the mountains of Scotland. *Dicks.* 5. 2.

56. Elongatum. *Elongated B.* Antheræ a little upright. Leaves linear, pointed, May. In woods near Loch Neſs in Scotland. *Hedw. ſtirp.* i. 36.

57. Marginatum. *Bordered B.* Antheræ pendulous. Calyptra pointed at the end. Leaves ovato-lanceolate, dentate, bordered, pointed. In Paſtures, Scotland. *Dicks.* 5. 1. *a. b.*

58. Recurvatum. *Bowed B.* Antheræ roundiſh, pendulous. Leaves like briſtles. May—October. On calcareous rocks. *Hedw.* 1. 38.

59. Sericeum. *Silky B.* Antheræ pendulous, oblong. Leaves ſpear-ſhaped, pointed, keeled, lower ones ſhrivelled, brown; upper ones fine pale green. March—July. P. On mountains in Yorkſhire, &c. *Dill.* 50. 61.

60. Zierii. *Zier's B.* Antheræ pendulous, club-ſhaped, long. Shoots cylindrical. Root leaves expanding, longer than thoſe of the ſtem. October. On moiſt banks in the Highlands, and in Wales. *Dicks.* 4. 10.

HYPNUM. Calyptra ſmooth. Anthera with an operculum or cover, on a pedicle, from a lateral perichætium or ſcaly bulb. Stem generally procumbent, with many branches. *Female*: a ſingle piſtillum, from the alæ of the leaves.

* *Leaf pinnated.*

1. Taxifolium. *Yew-leaved H.* Leaf ſimple, pinnated, launce-ſhaped. Pedicle from the root. Antheræ roundiſh, erect. Feb.—May. P. In hedge bottoms, &c. *Dill.* 34. 2.

2. Denticulatum. *Feathered H.* Leaf ſimple, pinnated; pinnæ duplicate, curved. Pedicle from the root. Apr. P. In woods, &c. *Dill.* 34. 5.

3. Bryoides. *Fern H.* Leaf ſimple, pinnated, launce-ſhaped. Pedicles from the apex of the ſtalk. Feb.—May. A. *Dill.* 34. 1.

4. Adiantoides. *Upright H.* Leaf pinnated, branched, erect. Pedicle from the middle. Pinnulæ acute. Mar. P. On bogs. *Dill.* 34. 3.

5. Complanatum. *Flat H.* Leaf pinnated, branched; pinnæ acute, imbricated, complicated, compreſſed, gloſſy. Antheræ oval. March, April. P. On trees. *Dill.* 34. 7.

6. Aſplenoides. *Spleenwort H.* Leaf pinnated, almoſt ſimple, linear. Peduncules terminal.

Antheræ

Antheræ ſomewhat bent in, dentated. Bogs in the highlands of Scotland. *Dill.* 5. 5.

7. Sylvaticum. *Wood H.* Leaf pinnated, branching, decumbent. Pinnæ acute, the peduncles ſprouting from the middle. April, May. P. In woods, at the roots of trees. *Dill.* 34. 6.

** *Stems ſtraggling.*

8. Lucens. *Shining H.* Stems branched. Leaves ſub-pinnated, large, gloſſy, punctured. April—June. P. In ſhady wet places. *Dill.* 34. 10.

9. Undulatum. *Waved H.* Stem branched, 5 or 6 inches long. Branches few, irregular. Leaves ſub-pinnated, narrow, waved, gloſſy. Bulb long, looſe. Pedicle ſcarce an inch long. Calyptra long, with a yellow apex. Operculum with a long horn. March, April. P. In woods. *Dill.* 36. 1.

10. Criſpum. *Curled H.* Branched, Leaves ſub-pinnated; pinnæ undulated, curled. Pedicle and anthera ſhort. March, April. P. Near Graveſend and in woods in a chalky ſoil. *Dill.* 36. 1. 2.

11. Triquetrum. *Triangular H.* Branches unequal, curved. Leaves triangular, ſpreading, recurved, pointed, large, pale. Sept — January. P. In woods, &c. *Dill.* 38. 28.

12. Rutabulum. *Toothed H.* Branches irregular, a little creeping. Leaves oval, imbricated, pointed. Calyptra long, ſhining. Operculum obtuſe. Sep.—Dec. P. In woods, heaths, &c. *Dill.* 38. 29.

13. Albicans.

13. Albicans. *Whitiſh H.* Stem nearly upright, ſlender, branched. Leaves ſetaceous, compreſſed, ſoft, ſhining. May. On ſandy heaths. *Dill.* 42. 63.

14. Chyſocomum. *Yellow H.* Stem upright, branched. Leaves oblong, ſpear-ſhaped, pointed, with many ribs, bent back, a dull green. Nov. On bogs in Yorkſhire and Scotland. *Dill.* 39. 36.

15. Flagellare. *Wandering H.* Stem procumbent, long, very ſlender, naked, curved above. Leaves bent back. Antheræ fringed, roundiſh. On ſtones near rivulets in the highlands of Scotland. *Dill.* 39. 42.

16. Fluitans. *Floating H.* Leaves ſpear-ſhaped, alternate, remote. Much branched. Stagnant waters, and marſhy places in Ireland. *Dill.* 38. 33.

17. Intricatum. *Interwoven H.* Stems creeping, branched. Leaves ſpear-ſhaped, pointed. Antheræ urn-ſhaped, on crooked peduncles. Woods near Matlock. *Vaill.* 28. 2.

18. Medium. *Middle H.* Stem creeping, branched. Leaves broad, lanceolate, pointed, imbricate, but open. Antheræ upright, cylindrical, fringed. At the roots of trees in woods in Scotland. *Dill.* 42 65.

19. Prolixum. *Long H.* Stem branched, rather bare below. Antheræ ovate, fringed. Peduncle ſhort. Rivulets in the Highlands. *Dill.* 38. 32. and 85. 20.

20. Rotundifolium. *Round leaved H.* Stems creeping, branched. Leaves oval, expanding in two rows. Antheræ ovate, dentate, fringed.

fringed. Peduncles crooked. In woods in Scotland at the roots of trees. *Scop.* 62. 1333.

21. Rugoſum. *Wrinkled H.* Stems ſcattered, almoſt erect. Leaves pointing one way, bent back, wrinkled at the baſe. On bogs in Scotland. *Dill.* 37. 24.

22. Stellatum. *Starry H.* Stems upright. Leaves oval, pointed, upright, coloured. In wet meadows, and bogs. *Dill.* 39. 35.

*** *Stems pinnated.*

23. Filicinum. *Bog H.* Stem creeping. Branches diſtant. Leaves imbricated, incurved, acute, turned to one ſide. Mar. P. On bogs. *Dill.* 36. 19.

24. Parietinum. *Wall H.* Stem creeping, naked, or cloſe covered with leaves. Firſt branches few, alternate; ſecond branches oppoſite, in the ſame plane, like Fern, and pinnated. Pinnulæ minute, acute, fine green, gloſſy. Bulbs numerous. Pedicles aggregate, 2 inches long, purple, waved. Calyptra yellow, ſhining. Operculum with a long bill. Feb. P. On heaths, &c. *Dill.* 35. 13.

25. Proliferum. *Proliferous H.* Differs only from the laſt in being leſs, and the leaves not gloſſy. *Curt.* i. 72. Heaths and ſhady woods. P.

26. Prœlongum. *Trailing H.* Stems ſub-bipinnated, decumbent, long. Branches remote. Leaves oval, ſmall, curled. Antheræ drooping. Feb. Mar. P. On old trees, &c. *Dill.* 35. 15.

27. Criſta.

27. Criſta Caſtrenſis. *Creſted H.* Pinnated. Branches approximate, curved at the apex, yellowiſh. Feb.—P. On chalk-hills. *Dill.* 36. 29.

28. Abietinum. *Fir H.* Branches pinnated. roundiſh, remote, unequal, ſubulate, tenacious, yellowiſh. Pedicles ſingle, purple, ſtrait. Calyptra erect, ſubulate, pallid. Antheræ brown, much curved. March. P. On hills in Oxfordſhire. *Dill.* 35. 17.

29. Plumoſum. *Winged H.* Creeping, pinnated. Branches approximate. Leaves imbricated, ſubulate; antheræ erect. Feb. P. On walls, trees, &c. S. Brit. *Dill.* 35. 16.

30. Nitens. *Shining H.* Branches very ſhort. Leaves very narrow, almoſt like hairs, ſhining. On turf bogs in Scotland. *Dill.* 39. 37.

31. Pennatum. *Winged H.* Stem winged, branched, pinnæ imbricated, ſharp pointed, in two rows, waved tranſverſely. Empalement as long as the pedicle. Trunks of trees in woods in the north. *Dicks.* 1. 8.

**** *Leaves reflex.*

32. Cupreſſiforme. *Cypreſs H.* Creeping, ſubpinnated. Leaves ſharp-pointed, curved, turned all one way. Feb. P. On old trees, &c. *Dill.* 37. 23.

33. Aduncum. *Hooked H.* Erect, branched. Leaves like the laſt. Branches curved at the top. May—Auguſt. P. On bogs *Dill.* 37. 26.

34. Scorpoides. *Scorpion H.* Branches irregular, procumbent, curved. Leaves like the two laſt. On bogs. Nov.—April. P. *Dill.* 37. 25.

35. Viticuloſum. *Mountain H.* Creeping, Branches irregular, cylindrical. Leaves ſpreading, pointed. Antheræ cylindrical. March. On heaths, &c. *Dill.* 39. 43.

36. Squarroſum. *Common H.* Branches irregular. Leaves oval, ſharp-pointed, reflex in different directions. April. In wet meadows. *Dill.* 39. 38.

37. Loreum. *Ground H.* Stem creeping. Branches irregular, erect. Leaves turned one way. Antheræ roundiſh, with a large operculum. April. P. On hills. S. Brit.

38. Compreſſum. *Compreſſed H.* Stem winged, compreſſed, pinnæ ſharp, bent inwards, Antheræ almoſt erect, oval. March, Apr. On the trunks of trees in woods. *Dill.* 36. 22.

39. Paluſtre. *Marſh H.* Stem creeping, branches crowded, erect. Leaves oval, pointing one way. Antheræ nearly erect. January—April. P. In wet places. *Dill.* 37. 27.

***** *Buſhy* or *faſciculate.*

40. Dendroides. *Tree H.* Stem erect, two inches high, buſhy at the top. Leaves narrow, concave, cloſe to the ſtem, yellowiſh, ſhining. Antheræ erect. Mar. P. *Dill.* 40. 48.

41. Alopecurum. *Fox tail H.* Differs from the laſt in the branches being more ſlender, and

and ſub-divided, and the antheræ drooping. Apr. P. In woods, &c. *Dill.* 41. 49.

42. Pulchellum. *Fair H.* Stems crowded together, erect. Branches in bundles, nearly equal, linear. Antheræ erect, a little oblique on long pedicles. Shady woods in Scotland. *Dicks.* 5. 6.

43. Smithii. *Hairy veiled H.* Stems pinnated, branching on all ſides. Leaves nearly circular, a little concave. Antheræ ovato-cylindrical. Calyptra hairy upwards. Trunks of trees on Barham Downs, Kent. Dr. J. E. Smith. *Dicks.* 5. 4.

* * * * * * *Cylindrical.*

44. Curtipendulum. *Pendulous H.* Stems ſtraggling. Leaves oval, acute, ſpreading. Antheræ pendulous, on ſhort pedicles. Feb.—April. P. On the roots of trees, &c. S. Br. *Dill.* 43. 69.

45. Purum. *Meadow H.* Stems ſtraggling. Leaves oval, obtuſe, imbricated. Antheræ oblique. Feb. P. In moiſt woods, paſtures, &c. *Curt.* iii. 65.

46. Illecebrum. *Geniculated H.* Stem and branches irregular, cylindrical, not quite erect, obtuſe. Leaves roundiſh, imbricated, whitiſh. Mar. Apr. P. On heaths. S. Br. *Dill.* 40. 46.

47. Riparium. *Floating H.* Branched, pinnated, floating. Leaves acute, ſpreading, diſtant. Sept.—April. P. On the banks of rivers. *Dill.* 40. 44.

57. Cuſpidatum.

48. Cuſpidatum. *Pointed H.* Stems irregular, creeping, pointed, and pungent. Leaves triangular, ſpreading, but convoluted at the apex. March, Apr. In moiſt woods. *Dill.* 39. 34.

49. Attenuatum. *Tapering H.* Stems branched. Leaves ovate, pointing one way. Antheræ erect, tooth fringed. On trunks of trees in woods in Scotland. *Dill.* 42. 66.

50. Atrovirens. *Blackiſh-green H.* Stems creeping, branched, thread, ſhaped. Leaves dull green when wet, blackiſh when dry, ovato lanceolate. Antheræ inverſly ovate, on crooked pedicles. Grows with the former. *Dill.* 43. 67.

51. Cylindricum. *Cylindrical H.* Stems creeping. Branches cylindrical. Leaves oval, imbricate, pointed. Antheræ cylindrical. In woods on the trunks of trees in Scotland. *Dill.* 41. 57.

52. Filamentoſum. *Thready H.* Stems crowded, thread like, branching. Antheræ oval, fringed. Woods in Scotland. *Dill.* 36. 18.

53. Filiforme. *Thread-like H.* Stems ſtraggling, much branched. Branches thread-ſhaped, cylindrical. Antheræ oblique. Feb. P. On trunks of trees. *Dill.* 42. 62.

54. Molle. *Soft H.* Stems pendant, thread-ſhaped, much branched. Leaves imbricate, oval, pointed. Antheræ roundiſh, on crooked pedicles. On the banks of rivulets in the highlands of Scotland. *Dicks.* 5. 8.

55. Stramineum. *Straw-coloured H.* Stems erect, thread-ſhaped, ſomewhat branched. Leaves

Leaves ovato-lanceolate, imbricate, without ribs, glittering. In marſhy places the weſt ſide of Hampſtead heath. *Dicks.* 1. 9.

******* *Branches numerous, crowded.*

56. Sericeum. *Silky H.* Creeping. Branches erect. Leaves ſubulate, ſilky, yellowiſh. Antheræ erect. Dec. Jan. P. On walls, trees, &c. *Curt.* ii. 69.

57. Velutinum. *Velvet H.* Differs from the laſt in being much ſhorter, more green, and more compact, and the antheræ drooping. Feb. P. In woods, &c. *Dill.* 42. 61.

58. Serpens. *Creeping H.* Stems very ſlender and ſhort. Leaves obliterated. Antheræ erect, oblong, ſomewhat large; pedicles long. Apr. P. On old trees. *Dill.* 42. 64.

59. Sciuroides. *Squirrel-tail H.* Stem erect, branched, curved. Leaves dark-green, Feb.—Apr. P. On trees. *Dill.* 41. 54.

60. Myoſuroides. *Mouſe-tail H.* Branches very numerous, ſubulate. Leaves triangular, narrow. Antheræ oblong, drooping. Feb. On walls, &c. *Dill.* 41. 51. 52. 53.

61. Gracile. *Birds-foot H.* Stems creeping, much reſembles the preceding; but rarely above two inches long. Feb.—April. P. On the trunks of trees and on rocks. *Dill.* 41. 55.

62. Clavellatum. *Club H.* Creeping. Branches erect, much crouded. Pedicles ſhort. Antheræ curved. Dec. P. On old trees, &c. *Dill.* 85. 17.

III. ALGÆ, *Flags.*

Root, ſtem, and leaf all in one.

JUNGERMANNIA. Anthera oval, opening in 4 valves, on a long ſtraight pedicle from a membranous vagina; valves ſpreading, permanent. *Female* conſiſts only of naked ſeſſile ſeeds, generally on the ſame plant.

* *Leaves pinnated, turned one way.*

1. Aſplenoides. *Spleenwort J.* Stem 5 or 6 inches long, inclining, purple. Leaves alternate, roundiſh, ſcarce touching; minutely fringed at the edge. Pedicle half an inch long. Flower, formed of the expanded anthera, large, black. Feb. Mar. P. In woods, &c. *Dill.* 69. 5.

2. Viticuloſa. *Straggling J.* Simply pinnated. Leaves ſubulate, ſmall, denſe. Flowers from the baſe and from the middle. March, April. P. In wet woods. *Dill.* 69. 7.

3. Polyanthos. *Many-flowered J.* Simply pinnated, creeping. Leaves imbricated, denſe, intire, roundiſh, pointed, convex. Pedicle, from the origin of the ſtem, an inch and half long. Flower blackiſh, with very narrow ſegments. Apr. P. On bogs, &c. *Dill.* 70. 9.

4. Lanceolata. *Spear-leaved J.* Small, creeping, flowering at the top. Leaves ſimply pinnated, intire, launce-ſhaped, denſe, fine green. Feb. P. In wet ſhady places. *Dill.* 70. 10.

5. Bidentata. *Bifid J.* Differs from the laſt in being larger, and the leaves bifid, concave and more acute. Oct. Nov. P. In woods, heaths, &c. *Dill.* 70. 11.

6. Bicuſpidata. *Forked J.* Small, creeping, flowering from the middle. Vaginæ cylindrical. Leaves bifid, roundiſh. P. Mar. In moiſt ſhady places. *Dill.* 70. 13.

7. Quinquedentata. *Toothed J.* Pinnated, branched, flowering at the top. Leaves quinquedentate, Apr. P. In Yorkſhire. *Dill.* 71. 23.

8. Inflata. *Inflated J.* Simply pinnated, flowering at the ends of the ſhoots. Capſules oblong, inflated. Pinnulæ divided, blunt. Nov.—March. In woods and moiſt heaths.

9. Anguloſa. *Angular J.* Simply pinnated. Flowers from the middle. Pinnulæ broadiſh, with three blunt teeth. September. In moiſt ſhady places. *Dickſon.*

10. Fiſſa. *Powdered J.* Simply pinnated. Pinnæ divided. Stem with barren flowers at the end. March—October. P. In moiſt places. *Dill.* 31. 6.

11. Macrorhiza. *Long Rooted J.* Stem erect, branching, flowers at the end. Pinnæ alternate, blunt. Mountains of Scotland. *Dicks.* 5. 10.

12. Sphagni. *Bog-moſs* *J.* Stem ſimply pinnate, creeping, flowers from the ſide. Pinnæ roundiſh, intire, imbricated, pointing one way. May. Marſhy places. *Dicks.* 1. 10.

13. Spinuloſa. *Triple ſnipt* *J.* Stem erect, branched. Leaves inverſely ovate, dentate. On Snowdon. *Dill.* 70. 15.

14. Trichomanis. *Powder headed* *J.* Simply pinnated. Pinnæ ovate, flat, intire. Flowers from the end of the ſtem. April—Oct. Wet hedges. *Dill.* 31. 5.

15. Ventricoſa. *Swollen* *J.* Simply pinnated, flower from the middle. Leaves bifid. Vaginæ roundiſh. In woods. *Dill.* 70. 14.

* * *Pinnated with auriculæ.*

16. Undulata. *Waved* *J.* Bipinnated above, flowering at the top. Leaves roundiſh, undulated, intire, equal, alternate, diſtich, auriculate. March. P. In woods, &c. *Dill.* 71. 17.

17. Nemoroſa. *Wood* *J.* Differs from the laſt in the leaves being fringed, and leſs. March, April. In woods and moiſt ſhady places in Weſtmorland. *Dill.* 71. 18. S. Br.

18. Reſupinata. *Curled* *J.* Bipinnated above, flowering below. Leaves round, notched, imbricated, curled. April. P. In the fiſſures of rocks. *Dill.* 71. 19.

19. Albicans. *White* *J.* Bipinnated above, flowering at the top. Leaves linear, curved. March. P. In woods, &c. *Dill.* 71. 20.

20. Trilobata. *Trifid F.* Bipinnated beneath. Leaves broad, trilobed. March, April. P. In the mountains of Wales. *Dill.* 71. 22.

21. Reptans. *Creeping F.* Bipinnated beneath, apex creeping, flowering at the baſe. Leaves quadridentate, imbricated. Apr. P. In ſhade. *Dill.* 71. 24.

22. Multiflora. *Many-flowered F.* Leaf branched, creeping, acute, ſimply pinnated, flowering at the baſe. HUDS. *Dill.* 69. 4.

23. Cinerea. *Aſh coloured F.* Stem creeping, bipinnated, flowering from the middle. Vaginæ cylindrical. Leaves imbricated, roundiſh. In woods. *Dill.* 72. 28.

24. Tormentilla. *Downy F.* Stem creeping, downy above. Leaves intire, very downy. March, April. P. In moiſt woods, &c. *Dill.* 73. 35.

*** *Leaves doubly imbricated.*

25. Complanata. *Flat F.* Creeping. Branches equal. Leaves auriculate below, doubly imbricated, yellowiſh, flat. Apr. P. On the trunks of trees frequent. *Curt.* iv. 68.

26. Dilatata. *Scaly F.* Leſs than the laſt. Branches broader at the top, and the ſcales convex. Mar. P. On trees frequent in the North. *Dill.* 72. 27.

27. Tamariſci. *Tamariſk F.* Upper leaves roundiſh, convex, obtuſe, much larger than the reſt, black-purple. March. P. On trees in the North. *Dill.* 72. 31.

28. Platy-

28. Platyphylla. *Wall J.* Procumbent, imbricated beneath. Leaves cordated, acute, dark-green. March, April. P. On walls and trees. *Dill.* 72. 32.

29. Ciliaris. *Fern J.* Creeping. Leaves oval, acute, auriculate below, and fringed. Apr. P. On heaths, near rivulets, &c. S. Brit. *Dill.* 73. 35.

30. Varia. *Upright J.* Not quite erect. Leaves cordated, carinated, bipartite, bifarious. Mar. P. In woods, &c. S. Brit.

31. Pulcherrima. *Fringed J.* Not quite erect, crowded. Leaves ovate, imbricated, divided, fringed. October. On dry heaths, trunks of trees, &c. *Dill.* 69. 3.

**** *Imbricated on every ſide. Leaves irregular.*

32. Julacea. *Round J.* Stems cylindrical. Flowers on pedicles. Oct. P. On rocks in Wales. *Dill.* 73. 38.

33. Concinnata. *Braided J.* Stems round, a little compreſſed, imbricated, compact. Leaves inviſible to the naked eye, ſmooth, brown, whitiſh at the edge, preſſed cloſe to the ſtem. Antheræ pedunculate. Highlands, N. Brit. Sept. Oct. P. *Dill.* 73. 38? LIGHTF.

34. Rupeſtris. *Rock J.* Stems cylindrical. Leaves ſubulate, reflex, pointing one way, dark-green. Apr. May. P. On rocks in Wales. *Dill.* 73. 40.

35. Trichophylla. *Hairy J.* Stems cylindrical, a little erect. Leaves equal, capillary, pointed, erect. Flowers at the extre-

mity. April. P. *Dill.* 73. 37. On moors, in the North. S. Br.

36. Alpina. *Mountain J.* Stems cylindrical. Leaves oval, ſpreading, dark-reddiſh. Calyces imbricated. April—Oct. P. On bogs on the mountains in Wales. *Dill.* 73. 39.

37. Curvifolia. *Crooked leaved J.* Stems creeping, branched, cylindrical. Leaves imbricated, roundiſh, ſharp pointed, divided, bent in at the ends. On the Highlands of Scotland. *Dicks.* 5. 7.

38. Minuta. *Minute J.* Stems erect, winged, branched. Pinnæ with appendages underneath. Leaves roundiſh. In the Highlands. *Dill.* 69. 2.

39. Pauciflora. *Fewflowered J.* Stem creeping, much branched, filiform, flowers ariſing from the middle. Leaves bent in, deeply divided. Vaginæ conical, remote. *Dicks.* 5. 9.

***** *Without ſtem. Leaves ſimple.*

40. Epiphylla. *Broad-leaved J.* Leaves broad, depreſſed and black in the middle, laciniated and curled at the edges. Flower whitiſh, from the middle of the leaf, with ſpungy threads in the center. Mar. In rivulets frequent. *Dill.* 74. 41.

41. Pinguis. *Jagged J.* Leaf oblong, pale-green, ſinuated, greaſy. Antheræ oblong, from the diviſion of the leaves. April. On bogs, &c. *Dill.* 74. 42. *Eng. Bot. tab.* 85.

42. Mul-

42. Multifida. *Dwarf J.* Leaves bipinnatifid. Apr. P. In woods. S. Brit. *Eng. Bot. tab.* 86.

43. Furcata. *Globe J.* Leaves linear, branched, forked at the extremities. April. P. In woods. *Dill.* 74. 45.

44. Puſilla. *Shining J.* Leaves ſub-pinnatifid; lobes imbricated. Antheræ black, ſhining. Perichætium plicated. On heaths. S. Brit.

45. Sinuata. *Germander leaved J.* Shoots doubly winged, flat, indented, with two unequal lobes at the end. On rocks and ſtones under water. *Dill.* 74. 44.

TARGIONIA. Calyx black, bivalve, or rather bifid, with a longitudinal ſlit, including a globe. *Habit*, a leafy ſubſtance.

1. Hypophylla. *Vetch T.* Leaf ſingle, ſmall, flat, oblong, notched or digitated, half an inch long, firſt green, then dark purple, blackiſh beneath, bearing on the apex, beneath, fruit like a ſmall vetch. March—May. P. In the north of England. *Dill.* 78. 2.

MARCHANTIA. *Male:* Calyx peltate, covered beneath by a monopetalous corolla, on a long, ſtraight, tetragonal pedicle, from the apex of the leaf. Anthera multifid. *Female:* Diſperſed, on the ſame plant, ſeſſile, conſiſting of a campanulate calyx, with many ſeeds in the bottom. *Habit:* Flat leaves, attached by very ſlender fibres from the under ſurface.

1. Polymorpha. *Common M.* A congeries of broad, irregular, duſky green leaves, often imbricated. Common calyx with ten ſegments. Pedicle an inch long. Head ſtellated. Aug. P. Near ſprings, damp walls, &c. *Dill.* 76. 6.

2. Cruciata. *Croſs-headed M.* Leaves fine green, without nerve, ſpread in a broad circle. Common calyx quadripartite, ſegments tubular. Pedicle two inches long. Head cruciate. Female lunated. July, Aug. P. In ſhady places. *Dill.* 75. 5.

3. Hemiſpherica. *Marſh M.* Common calyx quinquifid, hemiſpherical. Pedicles ſhort. Head ſtellate. Perichætium 0. On bogs, &c. Apr. May. P. *Dill.* 75. 2.

4. Conica. *Wart M.* Leaves in large cluſters, laciniated, obtuſe, green, with many white tubercles. Common calyx quinquelocular, oval. Globules 5 or 6 on each pedicle. Apr. P. On the banks of rivulets, &c. *Dill.* 75. 1.

5. Androgyna. *Muſhroom headed M.* Common calyx intire, hemiſpherical. Under wet rocks, on the mountains of Scotland. *Dill.* 75. 3.

BLASIA. Calyx cylindrical, filled with ſeed. Fruit roundiſh.

1. Puſilla. *Dwarf B.* Leaves ſmall, in a circle from one to two inches diameter, deep purple at the baſe, green at the edges, laciniated. Heads globoſe, on ſlender pedicles an inch long. Sept.—Nov. P. Near Mancheſter, Northumberland, &c. *Dill.* 31. 7.

RICCIA.

RICCIA. Calyx o, unleſs a hollow bladder within the ſubſtance of the leaf. Corolla o. Anthera cylindrical, ſeſſile, on the germen. Style perforating the anthera. Seeds hemiſpherical, pedicillated.

1. Minima. *Small R.* Leaves ſmooth, bipartite, acute, expanded on the ground. Nov. A. After inundation. S. Brit. *Dill.* 78. 11.

2. Glauca. *Marſh R.* Leaves ſmooth, ſmall, middle nerve depreſſed, divided into 2 or 3 thick lobes. March. In fens, &c. *Dill.* 78. 10.

3. Fluitans. *Floating R.* Leaves linear, forked. In ſtagnant water. S. Brit. *Dill.* 74. 47.

4. Natans. *Fringed R.* Leaves obcordate, fringed. In ſtagnant water. HUDS. S. Brit. *Dill.* 78. 18.

5. Sinuata. *Rock R.* Leaves branched, ſegments ſinuate, broader at top, notched. HUDS. *Dill.* 142.

ANTHOCEROS Calyx ſeſſile, truncated, intire. Anthera ſingle, ſubulate, very long, bivalve. *Female* generally on the ſame plant; calyx ſexpartite; ſeeds three.

1. Punctatus. *Spotted A.* A cluſter, near an inch in diameter, of green, thin, almoſt pellucid, oblong, irregular, ſinuated, gloſſy, punctured leaves. Apr. In damp ſhady places. *Fl. dan.* 396.

LICHEN. *Archel*, or *Liverwort*. *Male*: Numerous, on a receptacle generally orbicular,

bicular, large, ſhining, plane, convex or concave, glutinous. *Female;* Farina ſprinkled on the ſame, or on a ſeparate plant.

* *Spotted, tubercular.*

1. Scriptus. *Lettered L.* Very thin, whitiſh, with black irregular lines, reſembling ſome ſort of letters or characters. On the bark of trees frequent. Jan.—Dec. P. *Dill.* 18. 1.

2. Geographicus. *Map. L.* Yellowiſh, with black lines reſembling a geographical map. On calcarious rocks in the northern counties. Jan.—Dec. P. *Dill.* 18. 5.

3. Antrovirens. *Black-green L.* Cruſt green, with tubercles, and a black margin. Jan.—Dec. P. LIGHTF.

4. Rugoſus. *Wrinkled L.* Whitiſh, covered with ſimple black lines and dots. Jan.—Dec. P. On trees. *Dill.* 18, 2.

5. Pertuſus. *Porous warty L.* Cruſt ſmooth, green-aſh, thick ſet with angular warts, punctured with black. Jan.—Dec. P. *Dill.* 18. 9.

6. Sanguinarius. *Black nobbed L.* Greeniſh aſh-colour, with very black tubercles, which are red within. Jan.—Dec. P. On rocks, and on the bark of trees. *Dill.* 18. 3. *Eng. Bot. tab.* 155.

7. Fuſco-ater. *Wall L.* Brown, with black tubercles. May—Dec. P. On old walls frequent.

8. Calcareus. *Dyer's L.* White, with black tubercles. On calcarious rocks in Weſtmoreland and in Wales. Jan.—Dec. P. *Dill.* 18. 8.

9. Atro-albus. *Black and White L.* Tubercles black and white. Jan.—Dec. P. On rocks.

10. Vernalis. *Vernal L.* Cruſt aſh-colour, or whitiſh. Tubercles red-brown. Jan.—Dec. P. *Dill.* 18. 4.

11. Rupicola. *Pale Rock L.* Cruſt aſh-colour; tubercles nearly the ſame, with a whitiſh margin. Jan.—Dec. P. LIGHTF.

12. Ventoſus. *Red-ſpangled L.* Cruſt hard, tartareous, cracked, teſſellated, pale yellow. Top of the tubercles blood-red. Jan.—Dec. P. *Dill.* 18. 14.

13. Fagineus. *White L.* White, with white tubercles, mealy. On the bark of the hornbeam, elm, and beech, Jan.—Dec. P. *Dill.* 18. 11.

14. Carpineus. *Hornbeam L.* Aſh-coloured, with whitiſh wrinkled tubercles. On the bark of the hornbeam, hazel, and aſh. Jan.—Dec. P. *Dill.* 18. 11.

15. Ericetorum. *Heath L.* White, with reddiſh tubercles. On wet heaths, &c. *Dill.* 14. 1.

16. Corallinus. *Coralline L.* Appears a white tartareous cruſt; but if broken and magnified, it reſembles bundles of coral. Jan.—Dec. *Dill.* 17. 36. LIGHTF.

17. Betu-

17. Betulinus. *Birch L.* White, with a central tubercle of the ſame colour. Sept.—April. A. On birch trees.

18. Byſſoides. *Brown L.* Cruſt mealy. Tubercles globular, brown. Jan.—Dec. P. On rocks, trees, &c. *Dill.* 14. 4.

19. Cinereus. *Grey L.* Black, with black tubercles edged with white. Jan.—Dec. P. On rocks, and large ſtones.

20. Calvus. *Bald L.* Whitiſh with fine black pores. Tubercles cuſhion-ſhaped, ſcattered, ſmooth, ſhining, dark tawney. On rocks in Scotland. *Dicks.* 6. 4.

21. Coccineus. *Scarlet L.* Mealy, greeniſh-brimſtone coloured. Tubercles immerſed, very red. On the ſtones of Stenehenge. *Dicks.* 2. 1.

22. Confluens. *Confluent T.* Whitiſh or aſh-coloured. Tubercles very black, large, convex and at laſt confluent. On rocks.

23. Graniformis. *Graniform L.* Whitiſh granulated. Tubercles black. On pales and old willows.

24. Immerſus. *Sunk L.* Tubercles as it were immerſed in the ſtone, black. Jan.—Dec. P. On limeſtone.

25. Lacteus. *White L.* White. Tubercles of the ſame colour hemiſpherical. Jan.—Dec. P. On rocks and ſtones.

26. Muſcorum. *Moſs L.* Cruſt hoary. Tubercles black, connected. Jan.—Dec. P. On Moſſes.

27. Niger.

27. Niger. *Black L.* Ground black, tubercles roundiſh, black. Jan.—Dec. P. On rocks.

28. Oculatus. *Eyed L.* Cruſtaceous, rough, with fungous papillæ. Tubercles black. Rocks and ſtones in Scotland. *Dicks.* 6. 3.

29. Oederi. *Oeder's L.* Cruſtaceous rough, red. Tubercles black. Rocks and ſtones in Scotland. *Fl. dan.* 470. 1.

30. Querneus. *Oak L.* Cruſt yellowiſh with a tinge of brown. Tubercles nearly immerſed, black. Jan.—Dec. P. On the trunks of oaks.

31. Rufus. *Brown L.* Cruſt greeniſh. Tubercles moſtly on pedicles, flattiſh brown. Oct.—March. A. On heaths, &c. *Dill.* 14. 2.

32. Sphœroides. *Spherical L.* Ground aſh-coloured, greeniſh. Tubercles globular, fleſh coloured. June. Heaths and woods. *Dicks.* 2. 2.

33. Sulphureus. *Sulphureous L.* Cruſtaceous, rough, brimſtone coloured. Tubercles black. Rocks in Scotland.

** *Cruſtaceous, ſpotted with ſcutellæ, or little targets.*

34. Candelarius. *Yellow L.* Deep yellow, with paler ſcutellæ. Dec —June. On walls, bark of trees, &c. *Dill.* 18. 18.

35. Tartareus. *Welſh L.* Silver-grey, thick. Scutellæ large, pale-yellow, with a white margin. Jan.—Dec. P. On rocks in Wales and the north of England. *Eng. Bot. tab.* 156. *Dill.* 18. 13.

36. Pal-

36. Palleſcens. *Pale L.* Whitiſh, orbicular, downy. Scutellæ pallid, ſometimes greeniſh. Jan.—Dec. P. On walls and on the bark of trees. *Dill.* 18. 17.

37. Subfuſcus. *Browniſh L.* Whitiſh. Scutellæ browniſh, with a grey margin, ſlightly notched. Jan.—Dec. P. On the bark of trees, and walls. *Dill.* 18. 16.

38. Ater. *Black-cupped L.* Cruſt grey, ſhields ſmall, numerous, black, with white margins. Jan.—Dec. *Dill.* 18. 15. and 55. 8. LIGHTF. On walls and trunks of trees.

39. Parellus. *Crayfiſh-eye L.* Cruſt white, ſhields numerous, with ſhallow, aſh-coloured, plane diſks, with obtuſe margins. Jan. —Dec. *Dill.* 18. 10. LIGHTF. On walls, trunks of trees, &c.

40. Flaveſcens. *Yellow L.* Cruſt yellowiſh-green. Scutellæ reddiſh yellow. Jan.—Dec. P. On walls, &c. *Dill.* 18. 18.

41. Flavo-rubeſcens. *Orange L.* Cruſt greeniſh-aſh colour. Scutellæ orange coloured. Jan.—Dec. P. Trunks of trees, rocks and ſtones. *Fl. dan.* 955. 1.

42. Cæſius. *Bluiſh L.* Ruſty-ochrey colour. Scutellæ elevated, blackiſh-blue. On ſlate rocks in Scotland. *Dicks.* 6. 6.

43. Caneſcens. *Hoary L.* Whitiſh, with a tinge of green. Scutellæ black. On walls and trunks of trees. *Dill.* 18. 17.

44. Cupularis. *Acorn cup L.* Whitiſh green. Scutellæ hemiſpherical, pale brick colour, border concave, whitiſh. On ſlate rocks in Scotland.

45. Fri-

45. Frigidus. *Frigid L.* Whitiſh, ſomewhat ſhrubby, ſmall branches very ſhort, crowded. Scutellæ bluiſh with white borders. On the mountains of Scotland.

46. Fuſco-luteus. *Browniſh-yellow L.* Whitiſh, conſiſting of granulated maſſes. Scutellæ flat dirty-yellow, imperfectly bordered. On the mountains of Scotland. *Dicks.* 6. 2.

47. Gibboſus. *Gibbous L.* Cruſt brown, warty. Scutellæ nearly immerſed, black, bordered by the cruſt. On Alpine rocks. *Dicks.* 6. 5.

48. Lentigerus. *White L.* Whitiſh, a little lobed. Scutellæ yellowiſh, white at the edge. Jan.—Dec. On Gogmagog hills.

49. Leucophæus. *Bluiſh L.* Aſh coloured-brown. Scutellæ flat, black, with whitiſh borders. On the highlands of Scotland. *Fl. dan.* 955. 2.

50. Luteus. *Yellow L.* Green ſh-aſh colour. Scutellæ yellow. On trunks of trees. *Dicks.* 2. 6.

51. Marmoreus. *Marble L.* Cruſtaceous, ſomewhat aſh-coloured. Scutellæ fleſh-coloured, a little hairy. On the bark of trees, &c.

52. Pezozoides. *Peziza L.* Cruſt ſea-green. Scutellæ yellow, crowded, bordered. *Dicks.* 2. 4.

53. Rimoſus. *Chinked L.* Ground whitiſh, full of chinks, the portions roundiſh. Scutellæ

Scutellæ ſea green, edges white. On rocks and ſtones. *Fl. dan.* 468. 3.

54. Scrupoſus. *Hollowed L.* Cruſt aſh coloured, granulated. Scutellæ immerſed, black, ſcalloped at the edge. Jan.—Dec. P. Walls and dry heaths. *Dill.* 18. 15.

55. Upſalienſis. *Upſal L.* Cruſt very white, compoſed of briſtles. Scutellæ large, cream coloured. On heaths. *Dicks.* 2. 7.

*** *Imbricated.*

56. Centriſugus. *Spreading L.* Foliola multifid, ſmooth, centrifugal. Scutellæ red brown. On large ſtones in Wales, &c. *Dill.* 24. 75. Jan.—Dec.

57. Cartilagineus. *Cartilaginous L.* Leaves ſmall, pale, greeniſh-yellow, cartilaginous, round, notched, cluſtered. Shields orange-tawny. *Dill.* 24. 74. LIGHTF.

58. Saxatilis. *Stone L.* Imbricated. Greeniſh grey. Foliola ſinuated, rough. Scutellæ the ſame colour. Jan.—Dec. On ſtones, trunks of trees, &c. frequent. *Dill.* 24. 83.

59. Omphaloides. *Purple L.* Imbricated. Foliola multifid, ſmooth, obtuſe, downy, purple, an inch long. Jan.—Dec. On rocks, &c. *Dill.* 24. 80.

60. Olivaceus. *Olive L.* Imbricated. Foliola lobed, gloſſy, livid. Scutellæ large. On rocks, trees, &c. *Dill.* 24. 78.

61. Fahlunenſis. *Small black Cork L.* Leaves linear, ſmooth, very ſmall, black, divided and ſub-divided. Shields ſmall, black. *Dill.*

Jan—Dec. LIGHT *Dill.* 24, 81. On rocks and large ſtones.

62. Criſpus. *Curled Jelly L.* Leaves lobed, truncated, notched, black-green. Shields of the ſame colour. Octob.—June. A. On ſtones in ſhady places. HUDS. *Dill.* 19. 23.

63. Criſtatus. *Creſted Jelly L.* Leaves notched, fringed, blue-green. Shields brown, larger than the leaf. Octob.—July. A. On rocks, ſtones, and walls. *Dill.* 19. 26.

64. Parietinus. *Common L.* Imbricated. Foliola yellow, curled. Scutellæ of the ſame colour. Jan.—Dec. P. On walls and trees. *Dill.* 24. 76.

65. Phyſodes. *Inflated L.* Imbricated. Aſh-colour. Laciniæ obtuſe, ſub-inflated; concave, furrowed, and black beneath. Jan.—Dec. P. On heaths in the North. *Dill.* 20. 49. *Eng. Bot. tab.* 126.

66. Stellaris. *Starry L.* Imbricated. Foliola oblong, narrow, laciniated, aſh-colour. Scutellæ black. Jan—Dec. P. On the bark of aſh-trees, &c. *Dill.* 24. 70.

67. Pullus. *Small brown L.* Leaves brown, numerous, ſmall, notched, convex, ſegments deflexed. Shields darker, margins paler, and criſped. Jan.—Dec. P. *Dill.* 24. 69. LIGHTF. *Fuſcus* of Hudſon. On rocks, and large ſtones, in Wales and Weſtmoreland.

68. Plumbeus. *Lead coloured Spungy L.* Leaves laciniated, obtuſely lobed, hairy beneath.

neath. Shields red-brown. Jan.—Dec. P. On trunks of tree. *Light.* xxvi. *p.* 827.

69. Carnoſus. *Fleſhy L.* Little leaves crowded together, nearly erect, roundiſh, mealy at the margin. Shields thick, reddiſh brown. On rocks on the mountains of Scotland. *Dicks.* 6. 7.

70. Fluviatilis. *River L.* Leaves lobed, a little ſcolloped, convex, blackiſh-green. Shields round, hollow, of the ſame colour. In the rivulets of Snowden, &c. Jan.—Dec. P. *Dill.* 19. 28.

71. Granulatus. *Granulated L.* Leaves roundiſh, ſcolloped, roughiſh, blackiſh-green. Shields concave, tawny. Jan.—Dec. P. On the Pebbles of Oxford Phyſic garden. *Dill.* 19. 24.

72. Luridus, *Lurid L.* Leaves minute, indented, thick, browniſh-green, white underneath. Tubercles black. On rocks on the mountains of Scotland. *Dill.* 30. 134.

73. Marginalis. *Marginal L.* Leaves with many clefts, dentate, blackiſh-green. Shields on the edges of the leaves, flattiſh, blackiſh-brown. On rocks and ſtones in the North and in Wales. Oct.—June. A. *Dill.* 19. 25,

74. Palmatus. *Palmated L.* Leaves ſomewhat palmate, ſcolloped, ſea-green. Shields tawny. Sept.—June. A. Heaths and trunks of trees, among moſs. *Dill.* 19. 30.

75. Saxatilis.

75. Saxatilis. *Stone L.* Leaves indented, rough. pitted. Shields cheſnut-coloured. Jan.—Dec. P. On ſtones, rocks, &c. *Dill.* 24. 83.

76. Sinuatus. *Sinuated L.* Leaves roundiſh, indented, ſcolloped, browniſh-green. Shields of the ſame colour. Sept.—July. A. On rocks in ſhady places. *Dill.* 19. 33.

77. Squamatus. *Scaly L.* Leaves ſmall, thickiſh, indented, angular, greeniſh. Shields convex, rough, black. On turfy ground. *Dill.* 30. 135.

* * * * *Foliaceous.*

78. Ciliaris. *Hairy L.* Aſh-colour, a little erect; ſegments linear, fringed, with hairs at the edge. Scutellæ notched, on pedicles, black. Jan.—Dec. P. On the bark of trees frequent. *Dill.* 20. 45.

79. Iſlandicus. *Eringo-leaved L.* Rigid, dry, aſcendent, laciniated or forked; margin raiſed, regularly fringed with ſhort ſpines. Colour whitiſh, but varying to brown or purple. Scutellæ rarely viſible, Jan.—Dec. P. On heaths and mountains in Wales, &c. *Dill.* 28. 111.

80. Nivalis. *Snow L.* Erect, concave, laciniated, ſmooth, curled at the edges, ſilver-white above with a greeniſh caſt when young; down beneath. Tubercles brown. On the ground, on barren hills. *Wallis Northumberland, Fl. dan.* 227.

81. Burgeſſii. *Crowned L.* Leaves thin, membranous, pellucid, dull-green, ſomewhat erect, curled, lobed, notched. Shields flat, ſmooth, of the ſame colour. On the trunks of hazel and birch. Jan.—Dec. P. *Lightf.* xxvi. *p.* 827.

82. Pulmonarius. *Tree L.* or *Lungwort.* Laciniated, obtuſe, ſmooth, pale brown, reticular above, woolly beneath. Scutellæ at the edges. Jan.—Dec. P. On the bark of oak and aſh trees. *Dill.* 29. 113.

83. Furfuraceus. *Branny L.* Decumbent, plane, ſoft; ſegments unequal, acute; above, white or aſh-colour; beneath black. January—Dec. P. On trees. *Dill.* 21. 52.

84. Ampullaceus. *Bladder L.* Lobed, notched, ſmooth, curled at the edge, with globular inflated veſcicles. In mountainous paſtures in Lancaſhire, &c. Sept.—Dec. A. S. Brit. *Dill.* 24. 82.

85. Farinaceus. *Mealy L.* Erect, compreſſed, branched, aſh-colour, mealy, with tubercles on the margin. Jan.—Dec. P. On the bark of trees. *Dill.* 23. 63.

86. Calicaris. *Channeled L.* Erect, linear, branched, channeled, aſh-colour, convex, with points reſembling coral. Jan.—Dec. P. On rocks and trees. *Dill* 23. 62.

87. Fraxineus. *Aſh. L.* Erect, oblong, rigid, laciniated, channeled, ſmooth, aſh-colour. Scutellæ

Scutellæ on ſhort pedicles. Jan.—Dec. P. On aſh and oak trees. *Dill.* 22. 59.

88. Prunaſtri. *Thorn L.* A little erect, channeled, ſoft, downy, white beneath, branched like deers' horns. Jan.—Dec. P. On the bark of thorns and other trees. *Dill.* 55. 54.

89. Juniperinus. *Juniper L.* Laciniated, curled, yellow; peltæ brown. Jan.—Dec. P. On the bark of trees. *Dill.* 24. 76.

90. Caperatus. *Sulphur-green Roſe L.* Leaves wrinkled, waved at the edge, growing in the ſhape of a roſe, from 1 inch to 1 foot in diameter. Shields rare, large, concave, red-brown. Jan.—Dec. P. On ſtones, and trees. *Dill.* 25. 97.

91. Glaucus. *Shining L.* Depreſſed, lobed, ſmooth, ſhining, aſh-colour; margin curled and mealy; blackiſh beneath. Jan.—Dec. P. In mountainous paſtures. *Dill.* 25. 96.

92. Perlatus. *Pearl-coloured L.* Leaves ſmooth, but not gloſſy, lobed, edges raiſed and curled. Under-ſide black, hairy. Shields large, concave, but rarely ſeen. Jan.—Dec. P. On trunks of trees and ſtones. *Dill.* 20. 39.

93. Veſpertillio. *Bat's-wing L.* Gelatinous, membranous, wrinkled, lobed, black-green, circular. Shields dark-red, numerous, crowded, near the centre. Octob.—July. A. On rocks, &c. *Dill.* 19. 20. *L. nigriſcens* of *Hudſ.* LIGHTF.

94. Faſcicularis. *Small cluſter L.* Leaves in erect cluſters, one-fourth of an inch high, black-green, gelatinous, pellucid, ſlightly palmated. Shields numerous, crowded, large. Jan.—Dec. P. *Dill.* 19. 27. On trunks of trees, &c.

95. Tremelloides. *Tender L.* Leaves lead colour, thin, tranſparent, from half to one inch high, jagged, curled. Shields red, but ſeldom found. Jan.—Dec. P. *Dill.* 19. 31. 32. 34. LIGHTF. On ſtones in ſhady places.

96. Cochleatus. *Shell L.* Membranaceous, lobed, plaited, dark green. Scutellæ reddiſh brown. In woods at the roots of trees. *Dicks.* 2. 9.

97. Crocatus. *Reddiſh L.* The edges of the leaves yellow, powdery. Shields browniſh-black. On the rocks in the highlands in Scotland. *Dill.* 84. 12.

98. Fallax. *Fallopian L.* The leaves jagged, ſea-green above, white beneath, interſperſed with black ſpots. Shields terminal. On rocks in Devonſhire. *Dill.* 22. 58.

99. Fucoides. *Short-horned L.* Much branched, porous, hoary. Tubercles lateral, flattiſh, mealy. On rocks. *Dill.* 22. 60.

100. Membranaceus. *Membranaceous L.* Leafy, rather plaited, mealy, whitiſh brimſtone colour. Shields concave, of the ſame colour. On rocks in the highlands of Scotland. *Dicks.* 6. 1.

101. Satur-

101. Saturninus. *Saturnine L.* The lobes of the leaves rounded, blackiſh above, woolly and whitiſh below. Shields reddiſh brown, bordered. Trunks of trees in Scotland. *Dicks.* 6. 8.

102. Tenuiſſimus. *Thin L.* Leaves palmate with many clefts of a greeniſh colour. Shields immerſed, browniſh red. On ſand banks. *Dicks.* 2. 8.

103. Trapeziformis. *Trapezium L.* Leaf ſmall, rounded, thickiſh, dark green. Tubercles like dots, on the under ſurface of the leaf. On barren heaths. *Dill.* 30. 133.

***** *Coriaceous.*

104. Reſupinatus. *Livid L.* Foliaceous, creeping, lobed, dark aſh-colour, reddiſh white beneath; peltæ red, marginal, on the under ſide. Jan.—Dec. P. On pebbles on the coaſt of Suſſex, and on rocks in Shropſhire. *Dill.* 28. 105.

105. Aphtoſus. *Thruſh L.* Foliaceous, creeping, lobed, digitated, obtuſe, plane; above lively green, whitiſh at the edges, and brown beneath. Tubercles marginal, black. Jan.—Dec. P. On the rocks near the Roman wall, by Crag-Lake, *Wallis. Northumb. Dill.* 28. 106.

106. Cannius. *Aſh-coloured Ground L.* Foliaceous: creeping, lobed, obtuſe, plane; veiny and villous beneath; peltæ marginal, aſcendent. Jan.—Dec. P. On heaths, &c. *Dill.* 27. 102.

107. Venoſus. *Small dark-veined L.* Leaves half an inch, flat, ſmooth, wedge-ſhaped, above green, beneath white, with thick dark veins. *Dill.* 28. 109. Jan.—Dec. P. Diſcovered by Dr. Burgeſs, in Dumfriesſhire, in Scotland. LIGHTF.

108. Sylvaticus. *Wood L.* Leaves creeping, ſinuated, jagged, ſmooth, pitted, dull green; beneath downy, ſpungy, black brown. Shields cheſnut, at the extremities, but very rare. Jan.—Dec. P. In woods, at the roots of trees. *Dill.* 27. 101. LIGHTF.

109. Horizontalis. *Brown flat-ſhielded L.* Brown-green, lobed, obtuſe; under ſide veined, downy. Shields marginal, oval, brown, horizontal. Jan.—Dec. On moiſt rocks, &c. *Dill.* 28. 104. HUDS. LIGHTF.

110. Scrobiculatus. *Warty L.* Blue-green, lobed, obtuſe, pitted, warty, mealy; under ſide downy, without veins, ſpotted, ſpungy. Shields very rare. *Dill.* 29. 114. LIGHTF.

111. Læte-virens. *Green L.* Fine green, ſmooth, not pitted, lobed, jagged. Beneath white or buff, downy. Shields numerous, red. *Dill.* 25. 98. LIGHTF.

112. Glomuliferus. *Blue L.* Leaves 5 inches long, pale blue, lobed, notched, their axillæ circular, ſmooth, without pits, bearing black-green balls. *Dill.* 26. 99. LIGHTF.

113. Sac-

113. Saccatus. *Socket L.* Glaucous green, circular. Shields black brown, in ſockets. Jan.—Dec. P. On Chedder rocks, Somerſetſhire, and in the north of England. *Dill.* 30. 121. LIGHTF.

114. Croceus. *Saffron L.* Above light-green; beneath ſaffron. Shields dark, fuſcous, flat. Jan.—Dec. P. On rocks and ſtones in Scotland. *Dill.* 30. 120. LIGHTF.

115. Fuliginoſus. *Ruſt ſpangled L.* Creeping, lobed, lobes indented, rough underneath, covered with a ſpongy down. Shields ſtat, ruſt coloured, edges pale. On the branches of trees, &c. *Dill.* 26. 100.

116. Reſupinatus. *Reverſed L.* Creeping, lobed. Shields on the edges. Jan.—Dec. P. On pebbles on the ſea ſhore. *Fl. dan.* 764.

* * * * * * *Umbilicated, and dirty, as if with ſoot.*

117. Miniatus. *Cloudy L.* Foliaceous, ſhort, obtuſe, curled, dry, aſh-colour, punctured. Beneath red-yellow, ſmooth. Jan.—Dec. P. On rocks. *Dill.* 30. 127.

118. Velleus. *Fleecy L.* Foliaceous, roundiſh, peltated, almoſt intire, extremely hairy, or woolly beneath. Jan.—Dec. P. On rocks in the North. *Dill.* 545.

119. Puſtulatus. *Singed L.* Foliaceous, aſh-colour, orbicular, puſtular, as if burnt, channeled beneath. Jan.—Dec. P. On rocks in Radnorſhire. *Dill.* 30. 131.

120. Deu-

120. Deuſtus. *Sooty L.* Foliaceous, orbicular, intire, browniſh, aſh-colour, ſmooth, with ſmall black compreſſed peltæ. Jan.—Dec. P. On St. Vincent's rock near Briſtol. *Dill.* 30. 117.

121. Polyphyllus. *Smooth L.* Leaves numerous, ſmooth on both ſides, notched. Jan.—Dec. P. On Snowden-hills, on rocks called Llyn Llydaw. *Dill.* 30. 129.

122. Polyrhizos. *Fibrous L.* Leaves numerous, ſmooth, dirty brown, black and fibrous beneath. With the former. *Dill.* 30. 130.

123. Crinitus. *Button L.* Margin notched, fringed. Peltæ reſemble a black hair-button. Jan.—Dec. P. *Dill.* 29. 116. *Lightf.* In Wales and Scotland. *Proboſcideus* of Hudſon.

124. Pullus. *Dark brown L.* Leaves pimpled, lobed, curled, black underneath. Shields compreſſed, of the ſame colour. On rocks on the mountains of Scotland.

******* *Cup-bearing.*

125. Cocciferus. *Red L.* Simple, intire, greeniſh grey, about an inch in diameter, with ſcarlet tubercles round the edge of the cup. Nov.—Jan. In woods, heaths, &c. *Dill.* 14. 7.

126. Cornucopoides. *Radiated L.* Margins radiated, foliated. Cups large; tubercles ſcarlet. On heaths. *Dill.* 14. 9.

127. Pyx-

127. Pyxidatus. *Cup L.* Aſh-colour, ſimple, notched round the edge. Tubercles brown. In woods, &c. *Dill.* 14. 6.

128. Fimbriatus. *Indented Cup L.* Simple. Margins of the cups denticulated, proliferous. In woods, &c. *Dill.* 14. 8.

129. Gracilis. *Tall L.* Branched, denticulated, ſlender, ſmooth, bright brown, 2 inches long. On heaths, &c. *Dill.* 14. 13.

130. Digitatus. *Fingered L.* Branches numerous, irregular, like coral. Cups intire; tubercles ſcarlet. Height 1 inch. *Dill.* 15. 19. A. B. C.

131. Cornutus. *Simple Cup L.* Generally ſimple, ſometimes bifid. Cup intire, often obſolete. Aſh-colour. Nov.—Feb. On heaths, &c. *Dill.* 15. 14.

132. Difformis. *Serrated L.* Firſt erect, then curved, thickneſs of a quill, ſimple, ſlendereſt at the baſe, a little downy. Cup dentated. On heaths, &c. *Fl. Lapp.* 11. 5.

133. Tubiformis. *Trumpet L.* Simple, intire, tubiform, with minute ſcarlet tubercles. *L. Filiformis* of Hudſon. *Dill.* 14. 10. LIGHTF.

134. Alciformis. *Elk's horn L.* Leaves nearly erect, large, ſmooth, tough, grey or yellow-green. *L. Foliaceus* of Hudſon. *Dill.* 14. 12. LIGHTF.

135. Ventricoſus. *Cornucopia L.* Much branched, 2 inches high, hoary, reſembling a pollard

lard tree with its top on. Cups notched, with brown tubercles. *Hudſ. Dill.* 15. 17. LIGHTF. This, and all that precede it in this diviſion, are conſidered as varieties only, of the *L. Pyxidates*, by Hudſon.

* * * * * * * * *Buſhy.*

136. Rangiferinus. *Rein-deer L.* Much branched, tubular, white, ſoft when young; horns drooping, reddiſh. Fructification ſeldom viſible. Jan.—Dec. P. In woods, heaths, &c. *Dill.* 16. 29. *Eng. Bot. tab.* 173.

137. Uncialis. *Short L.* Tubular; branches ſhort, acute, ſoft, ſlender. Jan.—Dec. P. On heaths. *Dill.* 16. 22. *Eng. Bot. tab.* 174.

138. Subulatus. *Horned L.* Tubular. Grey. Branches few, ſimple, ſubulate. Length 3 inches. Fructification on the tips, ſmall, round, brown. Jan.—Dec. P. On heaths, &c. *Dill.* 16. 26.

139. Paſchalis. *Woody L.* Solid, branched, 2 inches high, covered with cruſtaceous leaves, grey. Jan.—Dec. P. On mountains in Wales and in the North of England. *Dill.* 17. 33.

140. Fragilis. *Brittle L.* Solid. Branches cylindrical, ſmooth, obtuſe. Greyiſh brown. Height 1 inch. Tubercles black, creſted, terminal. Jan.—Dec. P. On mountains in Wales and in the north. *Dill.* 17. 34. *Eng. Bot. tab.* 114.

141. Glo-

141. Globiferus. *Cypreſs L.* Much branched, ſolid, without leaves, aſh-colour, ſmooth. Tubercles terminal, hollow, with a ſmall aperture, black within. *Dill.* 17. 35.

142. Corniculatus. *Horned L.* Solid, branched, ſmooth, compreſſed, dichotomous, duſky olive. Scutellæ plane-convex, terminal. Jan.—Dec. P. On the mountains of Wales and Scotland. *Dill.* 17. 37. LIGHTF. *Ruderatus* of Hudſon.

143. Muſcicola. *Interwoven L.* Branched, branches ſhort, interwoven, blackiſh green. Shields of the ſame colour. On the high mountains of Scotland. *Dicks.* 6. 9.

144. Papillaria. *Madrepore L.* Hollow, whitiſh, branches few, very ſhort. Tubercles terminating, fleſh-coloured. On heaths. *Dill.* 16. 28.

145. Siliquoſus. *Podded L.* Solid, compreſſed, ſomewhat branched. Tubercles lateral, concave. Jan.—Dec. P. *Dill.* 17. 38.

146. Vermicularis. *Vermicular L.* Smooth, ſomewhat branched, branches ſpreading. Tubercles lateral, globular. Among moſs, in the mountains of Scotland. *Dicks.* 6. 10.

* * * * * * * * * *Filamentous.*

147. Plicatus. *Common Hairy L.* Pendulous, implicated, long. Scutellæ radiated. Jan.—Dec. P. On trees. *Dill.* 11. 1.

148. Bar-

148. Barbatus. *Bearded L.* Long, pendulous, aſh-colour, ſub-articulated. Branches ſpreading, very ſlender. Jan.—Dec. P. In woods, &c. *Dill.* 12. 6.

149. Jubatus. *Fennel L.* Pendulous; alæ compreſſed. Blackiſh grey. Jan.—Dec. P. On trees and ſtones. *Dill.* 12. 7.

150. Lanatus. *Wooly L.* Decumbent, implicated, opaque. Like black wool. Jan. —Dec. P. On rocks. *Dill.* 13. 8.

151. Chalybiformis. *Wiry L.* Decumbent, implicated, twiſted, rigid. Jan.—Dec. P. On trees. *Dill.* 13. 10.

152. Hirtus. *Rough L.* Erect, much branched, ſprinkled with farinaceous tubercles. Jan.—Dec. P. In woods. *Dill.* 13. 12.

153. Articulatus. *Jointed L.* Jointed. Branches very ſlender, punctured. Jan.—Dec. P. In woods, but rare.

154. Floridus. *Flowering L.* Erect, branched. Scutellæ radiated. Jan.—Dec. P. In woods, &c. *Dill.* 13. 13.

155. Pubeſcens. *Black-lace L.* Fibres rigid, gloſſy, like horſe-hair, interwoven like lace. Jan.—Dec. P. *Dill.* 17. 32. LIGHTF. On rocks in Weſtmorland.

156. Vulpinus. *Gold-wiry L.* Filaments erect, branched, ſtraggling, entangled, yellow, compreſſed, 2 inches high. Jan.—Dec. P. *Dill.* 13. 16. LIGHTF. On the trunks and branches of trees in Somerſetſhire frequent.

157. Exilis.

157. Exilis. *Scabrous L.* Much branched, matted. Threads hair like, matted, rough. Jan.—Dec. P. On the highlands of Scotland. *Dill.* 13. 9. *Scaber* of Hudſon.

TREMELLA. A gelatinous, membranous ſubſtance: Fructification ſcarce viſible.

1. Noſtoc. *Jelly T.* Green or yellowiſh, plicated, undulated. Jan.—Dec. A. On the ground generally after rain. Suppoſed by the country people to be that meteor which they call a falling ſtar. *Dill.* 10. 14.

2. Lichenoides. *Tranſparent T.* Erect, plane, margin curled, lacinulated, brown. On heaths, in woods, &c.

3. Verrucoſa. *Warty T.* Tubercular, ſolid, wrinkled, roundiſh, reſembling a bladder, blackiſh-yellow. Jan.—Dec. P. On ſtones in rivulets. *Dill.* 10. 16.

4. Hemiſpherica. *Sea T.* Hemiſpherical, ſcattered among *Confervæ*, *Fuci*, &c. Jan.—Dec. P.

5. Purpurea. *Purple T.* Globular, ſeſſile, ſolitary, ſmooth. Sept.—May. A. On ditch-banks about London. *Dill.* 18. 6.

6. Albida. *Whitiſh T.* Seſſile, gelatinous, of various ſhapes, whitiſh. Sept.—May. A. On rotten wood, in thick woods.

7. Arborea. *Tree T.* Seſſile, roundiſh, undulated, blackiſh. Sept.—May A. On dead ſticks in woods. *Dill.* 10. 15.

8. Adnata

8. Adnata. *Livid T.* Round, imbricated, livid. Jan.—Dec. P. On ſtones, and ſubmarine rocks.

9. Difformis. *Sea T.* Roundiſh, indented, of various forms, jelly like. Jan.—Dec. P. On confervas, and fuci, on ſubmarine rocks.

FUCUS. *Male:* Veſicles interwoven with hairs. *Female:* veſicles full of gelatinous matter, and covered with perforated granulæ. Seed ſingle. *Habit:* immerſed, coriaceous, without root, ſeſſile.

* *Leaves diſtinct.*

1. Natans. *Gulf F.* Stem round, very much branched. Leaves launce-ſhaped, ſerrated. Fructification globular, on foot ſtalks. Jan.—Dec. P. On the ſea coaſt.

2. Ovalis. *Ovate F.* Stem compreſſed, branched. Leaves oval, intire. May—Oct. P. On ſubmarine rocks and ſtones.

3. Sanguineus. *Dock-leaved F.* Stem cylindrical, branched. Leaves oblong, pointed, waved, intire. On the coaſt. *H. ox.* 645. 15. 8. 6.

4. Rubens. *Red F.* Stem branched, cylindrical. Leaves oblong, undulated, ſinuated. Jan.—Dec. P. On the Corniſh coaſt. *Fl. dan.* 652.

5. Fimbriatus. *Fringed F.* Stem compreſſed, nearly ſimple. Leaves pointing two ways, ciliated. Fructification on the margins, oblong. Jan.—Dec. P. *Gmel. fuc.* 20.

* * *Branching, leaf united.*

6. Siliquoſus. *Podded F.* Much branched, flexile, compreſſed. Leaves diſtich, alternate, intire. Fructification alternate, pointed, taper, on a pedicle, larger than the leaf. On the ſea-ſhore. *Ger.* 1569. 7. *Fl. Dan.* 106.

7. Subfuſcus. *Cromer F.* Much branched. branches thread ſhaped, ſcattered, Leaves ſetaceous, alternate. Fructifications in panicles. A. Cromer on the coaſt of Norfolk.

8. Setaceus. *Setaceous. F.* Thread ſhaped, much branched, branches alternate. Bladders eliptical in the ſubſtance of the leaf. Leaves ſetaceous. Jan.—Dec. P. On rocks and ſtones in the ſea.

9. Fœniculaceus. *Fennel-leaved F.* Filiform, much branched. Veſicles oval, terminated by ſmall leaves with many ſegments, often with tubercles at the ends. On the coaſt of Yorkſhire and Lancaſhire. *Fl. Dan.* 709.

10. Abrotanifolius. *Jointed F.* Filiform, compreſſed, bipinnated. Apices dilated, veſicular. Jan.—Dec. P. On the Suſſex coaſt.

11. Fibroſus. *Fibrous F.* Filiform, much branched. Veſicles roundiſh, growing in the ſubſtance of the leaf. Leaves linear: Jan.—Dec. P. On the coaſt. *H. ox. xv.* 8.

12. Tamariſcifolius. *Tamariſk F.* Branches alternate. Veſicles roundiſh, growing on the leaf. Leaves in pairs with tubercles at the baſe. Jan.—Dec. On ſubmarine rocks and ſtones. *Gmel.* 11. 2.

13. Articulatus. *Articulated F.* Jointed, much branched, joints ovate, tubular. Branches oppoſite and in whirls. March.—Nov. A.

14. Verticillatus. *Verticillate F.* Pale green, 5 inches long; ſtems from the root tubular, cylindrical; branches ſubulate, in whirls. *Lightf.* xxxi. *p.* 962.

*** *Leaf flat, ſtem forming a mid rib through it.*

15. Serratus. *Serrated F.* or *Sea Wrack.* Broad, tubercles at the apex. Jan.—Dec. P. On rocks frequent. *H. ox.* iii. *p.* 648.

16. Divaricatus. *Shrubby F.* Membranaceous, linear, intire, divaricated at the axillæ. Veſicles axillary, two together, but ſometimes ſingle. Jan.—Dec. P. On the coaſt. *H. ox. p.* 647.

17. Spiralis. *Spiral F.* Intire, punctated, membranous, channelled beneath. Fructification terminal, germinate, on pedicles, oblong. Jan.—Dec. P. *Ger.* 1567. 4. On rocks and ſtones on the coaſt of Kent and Eſſex.

18. Volubilis. *Twiſted F.* Flat, ſpiral, perforated, waved at the edges and dentated. Jan—Dec. P. On ſtones and rocks in the Firth of Cheſter.

19. Diſtichus.

19. Diſtichus. *Narrow-leaved F.* Leaf intire, five inches long, without bladders, olive, cartilaginous, ribbed, dotted. Jan—Dec. P. On ſea rocks and ſtones. *Fl. dan.* 351.

20. Alatus. *Winged F.* Bright red or purple, thin, tranſparent, 3 or 4 inches long, breadth rather more. Stem flat, much branched; branches alternate, dichotomous, winged. May—Oct. P. *Fl. dan.* 352. LIGHTF.

21. Eſculentus. *Eatable F.* Leaf ſimple, enſiform, ſtem pinnated, through the whole length of the leaf. Jan.—Dec. P. *Lightf.* xxviii. *p.* 938.

**** *Leaf flat, without a mid rib.*

22. Saccharinus. *Sweet F.* Stem cylindrical, very ſhort. Leaf long, enſiform, ſimple, thick. Jan.—Dec. P. On the coaſt. *Flor. Dan.* 416.

23. Digitatus. *Fingered F.* Length 3 feet long. Stem cylindrical; ſegments of the leaf enſiform, 2 feet long. Jan.—Dec. P. *Fl. dan.* 392. Stones and rocks in the ſea.

24. Polyſchides. *Great-fingered F.* Root a hollow bulb. Stem 2 feet long; ſegments from 6 to 30; ſometimes 3 or 4 yards high. Jan.—Dec. P. On rocks and ſtones in the ſea. LIGHTF.

25. Palmatus. *Handed F. Dilliſk.* Leaf plane, reſembling a hand. Jan.—Dec. P. On the coaſt frequent. *Lightf.* xxvii. *p.* 933.

26. Laciniatus. *Jagged F.* Bright red or purple, membranous, without rib or nerve; leaf dilated, palmated, often dichotomous. Ap.—Oct. A. HUDS. LIGHTF. Rocks and ſtones in the ſea. *Fl. dan.* 353.

27. Endiviæ-folius. *Endive-leaved F.* Pale red, thin, without rib or nerve. Length and breadth 2 or 3 inches; red warts in the dents. Auguſt. *Lightf.* xxxii. *p.* 964. Firth of Forth and coaſt of Jona.

28. Ciliatus. *Fringed F.* Flat, branched, membranous, reddiſh. Leaves narrow, fringed with long hairs. April—Nov. A. On the coaſt.

29. Prolifer. *Proliferous F.* Red, without rib or nerve. Length 5 inches; breadth of each leaf one fourth of an inch, catinato-proliferous, dilated and bifid at the apex. Jan.—Dec. P. LIGHTF. xxx. *p.* 949.

30. Bifidus. *Bifid F.* Leaf from 1 to 1½ inch long, bifid, widening towards the end. May—Oct. A. On ſtones and rocks in the ſea.

31. Pinnatifidus. *Pepper F.* Yellow olive, often tinged with red, tranſparent, 2 or 3 inches high, dentated, branched almoſt from the baſe. April—Oct. A. HUDS.

32. Multifidus. *Multifid F.* Leaves cartilaginous, flat, branched, branches alternate, generally doubly pinnated, blunt. April—Oct. Rocks and ſtones in the ſea. *Hen. ex.* xv. 8.

33. Dentatus. *Dentated F.* Dark red, thin, tranſparent, without nerve, length 5 inches, breadth

breadth 6 or 7. Much branched, doubly pinnatifid, alternate. May—Oct. A. *H. ox.* 646. 15. 5. LIGHTF.

34. Ligulatus. *Strap F.* Leaf dull-green, membranous, pellucid, without nerve. Middle ſtem flat, linear, continued, one-fifth of an inch wide, ſtraps, bipinnated. Jan—Dec. P. LIGHTF. xxix. *p.* 946.

35. Ceranoides. *Buckſhorn F.* Lance-ſhaped, intire, bifid, and tuberculated at the apex. June—Nov. P. On the ſea-ſhore frequent. *H. ox.* 15. 8. 1. 8. 11.

36. Canaliculatus. *Channelled F.* Leaf intire, channelled on one ſide, convex on the other, narrow, 3 inches. June—Aug. P. *F. Exciſſus* of HUDS. *H. ox.* 15. 8. 12.

* * * * * *Leaf compreſſed.*

37. Loreus. *Sea Thong.* Filiform, compreſſed, 3 feet by one-fifth of an inch, black-yellow, covered with tubercles. June—Oct. A. *Ger.* 1568. 5.

38. Elongatus. *Elongated F.* Filiform, compreſſed, forked, jointed. Knots ſwollen. May—Oct. P. Rocks and ſtones in the ſea. *H. ox. xv.* 8.

39. Nodoſus. *Knotted F.* Stem compreſſed. Leaves ſmall, oppoſite. A large oval veſicle on the middle of each branch. May—Oct. P. On rocks on the ſhore. *Ger.* 1568. 6.

40. Pygmæus. *Pigmy F.* Black green. Leaves erect, branched and dichotomous, reſembling ſtag's horns. June—Oct. P.

Lightf. xxxii. *p.* 964. *Pumilus* of *Hudſon.*

41. Filiformis. *Filiform F.* Leaves cartilaginous, linear, compreſſed, forked, pointed. May—Oct. P. On rocks and ſtones in the ſea.

42. Corneus. *Horny F.* Leaves cartilaginous, compreſſed, much branched, branches alternate, winged. Veſicles on foot-ſtalks, roundiſh. May—Oct. P. On rocks in the ſea.

43. Aculeatus. *Prickly F.* Linear, filiform, with many branches, compreſſed; lateral margins with teeth, erect, ſubulate. Jan.—Dec. P. On the coaſt of Cornwall. *Fl. dan.* 355.

44. Pinnatus. *Pinnated F.* Cartilaginous, triply pinnate, ſegments nearly erect, ſubulate. May—Oct. A.

45. Obtuſus. *Obtuſe F.* Cartilaginous, filiform, doubly pinnate, ſegments inverſily ovate, with tubercles at the end. May—Oct. A. On ſtones and rocks in the ſea.

46. Cartilagineus. *Scarlet F.* Much branched, ſupra-decompoſite, pinnated; ſegments linear, ſcarlet. Fruit globular, lateral. Jan.—Dec. P. On the coaſt frequent.

47. Plumoſus. *Feathered F.* Deep red or purple, 5 or 6 inches, doubly pinnated, reſembling a feather. Aug.—Oct. *Fl. dan.* 350. Huds.

* * * * * * *Leaf*

****** *Leaf cylindrical.*

48. Filum. *Thread F.* Simple, filiform, opake, brittle. Jan.—Dec. P. On rocks on the coaſt. *Pet.* 91. 5.

49. Elminthoides. *Earthworm F.* Thread ſhaped, little branched, opaque, ſlippery, bluntiſh at the end. June, July. On rocks in the ſea.

50. Diffuſus. *Diffuſe F.* Cartilaginous, filiform, forked, ſpreading. Jan.—Oct. P. On rocks in the ſea,

51. Furcellatus. *Forked F.* Filiform, forked, much branched, branches nearly equal, blunt. Jan.—Dec. P. On the coaſt. *Fl. Dan.* 393.

52. Plicatus. *Matted F.* Length 5 inches, capillary, brown, warty, waved at the ends, diaphanous. May—Sept. A. *Fl. dan.* 408. HUDS.

53. Purpuraſcens. *Purple F.* Filiform, much branched, purple, and on being cut pouring out a purple juice. Veſicles globular, in the ſubſtance of the leaf. May—Oct. P. On rocks in the ſea.

54. Incurvus. *Pine F.* Filiform, much branched, branches imbricated, the ends rolled in, little branches awl ſhaped, moſtly pointing one way. Jan.—Dec. P. On the coaſt.

55. Muſcoides. *Thorny F.* Cylindrical, much branched; branches irregular, with ſhort alternate ſoft ſpines. Dark-brown,

diphanous. May—Oct. P. On the Yorkſhire coaſt.

56. Amphibius. *Amphibious F.* Filiform, much branched, branches alternate, rolled in, little branches very ſhort with many diviſions. Veſicles oblong on foot ſtalks. July—Sept. P. In the ſea, and in ſalt marſhes.

57. Lanoſus. *Woolly F.* Leaves like hairs, forked, much branched, rough. July—Oct. P. In the ſea.

58. Confervoides. *Reddiſh F.* Filiform, cylindrical, compreſſed, much branched; branches unequal, ſetaceous. Tubercles diſperſed, roundiſh. May—Oct. P. On the northern coaſt.

59. Capillaris. *Capillary F.* Filiform much branched, branches alternate, little branches pointing one way. April—Oct. P. On ſtones in the ſea.

60. Flagelliformis. *Whipcord F.* Lengths 1 to 2 feet, dark red or greeniſh, ſlippery, tender, ſize of the firſt ſtring of a fiddle. *Fl. dan.* 650. LIGHTF.

61. Tuberculatus. *Tuberculated F.* From 9 to 12 inches long, red, tender. Branches obtuſe, covered with tubercles. June—Oct. P. On ſubmarine rocks and ſtones.

62. Faſtigiatus. *Short-forked F.* Length 3 to 6 inches, ſize of pack-thread, branches of an equal length, olive, or black-red. June—Oct. P. On ſubmarine rocks. *Fl. dan.* 393.

63. Plocameu

63. Plocameum. *Pectinated F.* Bright imbricate, tranſparent, 3 or 4 inches long, branched, divided, ſub-divided, and toothed. HUDS. LIGHTF.

ULVA. *Laver.* Fructifications in a diaphanous membrane. *Habit:* immerſed, ſub-diaphanous, ſeſſile, without root.

1. Pavonia. *Turkey-feather L.* Flat, reniform, ſtriated croſſwiſe. Jan.—Dec. P. On ſubmarine rocks. *Syſt. Nat.* 719.

2. Inteſtinalis. *Gut L.* Tubular, ſimple. In ſalt ditches on the coaſt. Mar.—Oct. A. *Dill.* 47. 9. 7.

3. Compreſſa. *Flat L.* Tubular, branched, compreſſed. Jan.—Dec. P. On rocks and ſtones on the coaſt. *Pet.* 9. 6.

4. Conſervoides. *Jointed L.* Filiform, tubular, jointed, with branches, compreſſed, alternate, articulated. On the Corniſh coaſt. *Dill.* 10. 9.

5. Latiſſima. *Curled L.* Oblong, flat, undulated, membranous, green, ſometimes purple. May—Oct. A. On the coaſt.

6. Lactuca. *Green L.* or *Oiſter-green.* Aggregate, membranous, pallid, palmated. Segments again divided into leaves, undulated, oval, obtuſe, pellucid. Sept.—May. A. In the ſea, &c. *Dill.* 42. 8. 1.

7. Umbilicalis. *Navel L.* Flat, orbicular, ſeſſile, coriaceous. Jan.—Dec. P. On rocks, on the coaſt. *Dill.* 46. 8. 3.

8. Linza. *Ribbon L.* Oblong, deeply wrinkled, bliſtered. Jan.—Dec. P. On the coaſt near Sheerneſs, &c. *Dill.* 9. 6.

9. Granulata. *Bladder L.* Spherical, aggregate, green. On the edges of ponds and ditches. *Dill.* 55. 10 17.

10. Laciniata. *Laciniated L.* Red; leaves plane, dilated at the apex, laciniated, undulated, 4 inches long, 2 inches wide. *Lightf.* xxxiii. *p.* 974.

11. Coccinea. *Scarlet L.* Flat, orbicular, membranaceous, indented, of a ſcarlet colour. Jan.—Dec. P. On rocks and ſtones in the ſea.

12. Lanceolata. *Leek L.* Ovato-launce-ſhaped, flat. Jan.—Dec. P. On rocks in the iſle of Man. *Dill* 9. 5.

13. Montana. *Mountain L.* Flat, ſcarlet, growing on the ground. Auguſt.

14. Dichotoma. *Dichotomous L.* Flat, dichotomous, green. Jan.—Dec. P. On rocks and ſtones, on the coaſt. *Light.* 54. *p.* 975.

15. Purpuraſcens. *Purpliſh L.* Purpliſh, tubular, much branched, nearly cylindrical. March—Oct. A. On the Hampſhire coaſt.

16. Fiſtuloſa. *Pipe L.* Gelatinous; tubular, uniform, ſimple. May—Sept. A.

17. Diaphana. *Diaphanous L.* Gelatinous, pale, diaphanous, nearly round, branched,

branches ſhort, a little pointed. Jan.—Dec. P.

18. Filiformis. *Filiform L.* Gelatinous, filiform, much branched, purpliſh, branches diſtant, very long. April—Sept. A.

19. Capillaris. *Capillary L.* Gelatinous, filiform, much branched, pale, branches alternate. May—Oct. A. On the Coaſt.

20. Rubra. *Red L.* Gelatinous, filiform, forked, red. May—Sept. A. On the coaſt.

21. Plumoſa. *Feathered L.* Gelatinous, filiform, branched, branches linear, pinnated, ſhining. April—Oct. P. On the ſea coaſt near Exmouth, Devonſhire.

22. Incraſſata. *Thick L.* Gelatinous, flat, dentate, green, thicker at the edge. March—Oct. A. In ditches. *Dill.* 10. 10.

23. Piſiformis. *Pea L.* Globular, ſolitary, ſpongy, browniſh. March—Auguſt. A. In ditches, between Greenwich and Woolwich.

CONFERVA. Fructification tubercular, unequal, diſperſed on long capillary fibres, either ſeſſile or floating.

* *Filaments ſimple, equal, without joints.*

1. Rivularis. *River C.* Very long, ſlender, deep-green. In ditches, &c. Jan.—Dec. P. *Dill.* 12. 2. 1.

2. Fontinalis.

2. Fontinalis. *Spring C.* Brown, ſoft, not quite a finger's length. In the New River, near Hornſey. *Dill.* 2. 3. March—June. A.

3. Violacea. *Violet C.* Filaments ſlimy, ſimple, equal, of a violet colour May—Oct. A. Near Llanberris, Wales. *Dill.* 2. 4.

** *Filaments branched, equal.*

4. Bulloſa. *Cotton C.* Filaments ſlender, green, intricate, including air-bubbles. In ſtagnant water frequent. March—June. *Dill.* 18. 3. 11.

5. Canalicularis. *Mill C.* Slender green, moſt branched towards the baſe. Jan.—Dec. P. In pure ſtreams, and mill-troughs or ſpouts. *Dill.* 21. 4. 15.

6. Amphibia. *Amphibious C.* Fibrillous, ſpongy, forming when dried into ſpines. Jan.—Dec. P. On the banks of the Thames. *Dill.* 22. 4. 17.

7. Æruginoſa. *Sea-Green C.* Capillary, about 2 inches long, ſoft, fine green. On the coaſt. June—Oct. A. *Dill.* 23. 4. 20.

8. Dichotoma. *Briſtle C.* Like briſtles, forked. In ditches. March—Oct. A. *Dill.* 17. 3. 9.

9. Scoparia. *Broom C.* Filaments proliferous, faſtigiate, pinnated. May—Oct. A. On the coaſt. *Dill.* 24. 4. 23.

10. Cancellata. *Latticed C.* Filaments alternate, ſhort, multipartite, fingered. Jan. —Dec. P. On the coaſt.

11. Littoralis.

11. Littoralis. *Olive Sea C.* From 4 to 12 inches, branched, capillary, tender, ſoft, but not gelatinous. May—Oct. A. On rocks on the coaſt. *Dill.* 22. 4. 17.

12. Fæniculacea. *Fennel-leaved C.* Finer than fennel, ſoft, yellow-green. June—Oct. A. On the Weſtern coaſt. HUDS. *Dill.* 16. 2. 8.

13. Tomentoſa. *Flock C.* From 1 to 6 inches, extremely fine, twiſted, red-brown. May—Oct. A. On the Weſt coaſt. HUDS. *Dill.* 19. 3. 13.

14. Spongioſa. *Sponge C.* Dark green, 3 inches, thick as pack-thread, the ſimple branches imbricated with hairs. Jan.—Dec. P. HUDS. *H. ox.* iii. 650. 15. 9. 6.

15. Furcata. *Forked C.* Filaments equal, branched at the ends, branches ſimple. Oct.—May. A. In ditches. *Dill.* 2. 6.

16. Rigida. *Rigid C.* Filaments, equal, much branched, ſtiffiſh, ſmall branches alternate, very ſhort. Jan.—Oct. P. In clear and briſk ſtreams. *Dill.* 4. 16.

17. Albida. *Whitiſh C.* Filaments equal, very fine, much branched, branches undivided, whitiſh. Oct.—May. A. In pools and bogs. *Dill.* 3. 12.

18. Nigra. *Black C.* Filaments equal, branched, very long, branches alternate, with many diviſions. May—Oct. A. On the Yorkſhire coaſt.

19. Multifida. *Tufted C.* Filaments equal, much branched, little branches oppoſite, very ſhort,

ſhort, with many diviſions. May—Oct. A. On ſtones and rocks on the coaſt.

*** *Filaments anaſtomiſing.*

20. Reticulata. *Net C.* Soft; filaments uniting like a net. May—Oct. A. In rivulets, on Hounſlow-heath, &c.

**** *Filaments knotted.*

21. Fluviatilis. *Horſe-tail C.* Simple, lubricous, ſlender, taper, ſtraight, with joints angular, or knots. Jan.—Dec. P. In a rivulet near Bangor in Wales. *Dill.* 39. 7. 47.

22. Gelatinoſa. *Frog ſpawn C.* Branched, ſpindle-ſhaped, with globoſe, gelatinous knots. Jan.—Dec. A. In clear ſprings *Dill.* 37. and 38. 7.

23. Atra. *Bead C.* Filaments like necklaces, much branched, of a browniſh black colour, joints globular, almoſt gelatinous. May—Dec. P. In ſprings and brooks. *Dill.* 7. 46.

***** *Filaments jointed.*

24. Verticillata. *Verticillate Sponge C.* Dark green, 5 inches, irregularly branched, covered with cloſe whirls of forked hairs, diſcoverable by glaſſes. LIGHTF. 984.

25. Equiſetifolia. *Red ſponge C.* Thick as pack-thread, 4 inches long, branched, divided, ſub-divided, whirled. LIGHTF. *H. ox. xv.* 9.

26 Capillaris.

26. Capillaris. *Thread C.* Simple, with joints alternately compreſſed. March—Sept. A. In ſalt ditches. *Dill.* 25. 5. 25.

27. Corallina. *Coralline C.* Dichotomous, gelatinous, reddiſh. May—Sept. A. On the coaſt frequent. *Dill.* 33. 6. 36.

28. Polymorpha. *Palmated C.* Lubricous, black, with ſhort palmated branches. Jan.—Dec. P. On the coaſt. *Dill.* 33. 6. 35.

29. Vagabunda. *Spreading C.* Branches ſhort, expanded like wool. April—Oct. A. In ſalt marſhes or bogs. *Dill.* 30. 5. 32.

30. Glomerata. *Cluſter C.* Much branched; branches ſhort, multifid, rough. April. Oct. A. On the coaſt. *Dill.* 28. 5. 31.

31. Rupeſtris. *Rock C.* or *Sea Bread.* Branches alternate, branched again, green. Jan. Dec. P. On the coaſt, and in rivers on rocks frequent. *Dill.* 28. 5. 29.

32. Ægagropila. *Globe C.* or *Moor-balls.* With many branches from the centre, forming a globe. Jan.—Dec. P. in lakes on mountains in the North.

33. Noduloſa. *Red knotted Sea C.* Much branched, divided, ſub-divided, tuberculated, thick as ſewing ſilk, 5 inches. *Dill.* 35. 6. 38. May—Oct. A. LIGHTF.

34. Diaphana. *Red dotted C.* One or 2 inches, fine, branched; joints diaphanous. On rocks. LIGHTF.

35. Plumoſa. *Red feathered C.* Much branched, compreſſed, branches ſupradecompoſite, alternately

alternately pinnated. Fructification dioicous; 3 to 6 inches, elegant. *Ellis. C. rubra* of Hudſ.

36. Ciliata. *Fringed C.* Minute, red, fine, dichotomous; joints numerous, diaphanous, encircled by a whirl of down. May—Sept. A. *Ellis Phil. Tranſ.* lvii. 18. LIGHTF.

37. Setacea. *Setaceous C.* Forked, branches very long, ſetaceous. Joints cylindrical. May—Oct. A. On ſtones and rocks in the ſea. *Dill.* 6. 37.

38. Elongata. *Pointed C.* Branched, branches forked, long, ſetaceous. Joints very ſhort. April—Oct. A. On ſtones and rocks in the ſea.

39. Purpuraſcens. *Purple C.* Much branched, branches crowded; joints cylindrical, long. May—Oct. A. On ſtones and fuci in the ſea. *Dill.* 7. 41.

40. Pellucida. *Pellucid C.* Much branched, branches oppoſite. Joints cylindrical, very long. May—Oct. A.

41. Sericea. *Silky C.* Very much branched, of a green colour, little branches crowded, very fine. Jan.—Dec. P. *Dill.* 5. 33.

42. Fulva. *Tawny C.* Branched, branches very ſhort, tawny. May—Sept. A. On ſtones, &c. on the Yorkſhire coaſt.

43. Nigreſcens. *Dark C.* Much branched, branches very long, ſmall branches in bundles, very ſhort, ſetaceous. Jan.—Dec. P.

44. Fucoides.

44. Fucoides. *Fucus C.* Very much branched, leſſer branches with many diviſions, the lowermoſt in bundles, containing the fructification. Jan.—Dec. P. On fuci, &c. in the ſea.

45. Villoſa. *Hairy C.* Branched. Joints woolly. Branches for the moſt part undivided, diſtant. May—Sept. A. On ſtones and rocks on the Corniſh coaſt. Rare.

46. Pennata. *Pinnated C.* Branched, branches crowded, trebly pinnated, ſegments awl-ſhaped. Jan.—Dec. P. On ſtones and rocks, between Dover and Margate.

47. Paraſitica. *Feathered C.* Branched, branches doubly winged. On fuci on the coaſt.

BYSSUS. Simple down or powder.

* *Filamentous.*

1. Septica. *Mouſe-ſkin B.* Soft, fragile, firſt white, then yellow, then black. In cellars on caſks, &c. *Dill.* 6. 1. 12.

2. Flos Aquæ. *Green Paper B.* Filaments feathered, expanded. On ſtagnant water, like paper. *Dill.* 21.

3. Phoſphorea. *Violet-coloured B.* Like down on old trees. *Dill.* 4. 1. 6.

4. Velutina. *Velvet B.* Like green velvet, on the bark of trees and old gravel walk. *Dill.* 7. 1. 14.

5. Aurea. *Saffron-coloured B.* Capillary, duſty; filaments ſome branched, others ſimple. On rocks. *Dill.* 8. 16.

6. Æruginoſa. *Verdigris B.* Threads ſimple, very fine, of a verdigris colour. Aug.—April. A. *Dill.* 1. 7.

7. Rubra. *Purple B.* Purple, like hairs. Jan.—Dec. P. *Mich.* 90. 2.

8. Nigra. *Black-threaded B.* Threads powdery, branched, black. Jan.—Dec. P. On rocks. *Dill.* 1. 18.

9. Fulva. *Tawny B.* Threads branched, tawny. Jan.—Dec. P. On moiſt rotten wood. *Dill.* 1. 17.

10. Candida. *White B.* Threads much branched, branches in bundles, whitiſh. Sep.—April. A. On rotten leaves, &c. *Dill.* 1. 15.

11. Cryptarum. *Briſtle B.* Hair-like, perennial, aſh coloured, tough. Jan.—Dec. P. On the plaiſtered walls of vaults, &c. *Dill.* 1. 20.

* * *Powdry.*

12. Antiquitatis. *Black Powder B.* On old walls frequent. *Dill.* 9. 1. 18.

13. Saxatilis. *Stone B.* Grey or aſh-colour. On all ſtones long expoſed to the air.

14. Candelaris. *Yellow B.* On trees and old walls every where. *Dill.* 3. 1. 4.

15. Botryoides. *Green B.* On the bark of trees and wet ground. *Dill.* 3. 1. 5.

16. Incana. *Mealy B.* Like meal, on gravelly ground, ditch-banks, &c. *Dill.* 3. 1. 3.

17. Lactea. *White B.* Cruſtaceous, like lime. On trees and moſſes. *Dill.* 2. 1. 2.

18. Iolithus. *Red B.* Blood-coloured. Jan.—Dec. P. On ſtones. *Fl. Dan.* 899. 1.

IV. FUNGI. *Muſhrooms.*

AGARICUS. Cap horizontal, with lamellæ or gills underneath.

With a ſtem; head orbicular.

* *Gills white.*

1. Integer. *Crimſon A.* Head a little concave, purpliſh or red. Stem and gills white. Aug.—Nov. *Schoef.* 1. 15. 2. Oſ-

2. Oſtreatus. *Oyſter A.* Stalk imperfect, frequently wanting. Cap ſhaped like an oyſter. Gills firſt white, then reddiſh. On the trunk of the willow, &c. Dec. Jan. *Curt.* iii. 71.

3. Procerus. *Tall A.* Stalk 6 inches, hollow, bulbous at the baſe, ruffled towards the top. Cap tawny, ſcaly, oval, afterwards campanulate. Gills white. Sept. Oct. *Curt.* iv. 39.

4. Muſcarius. *Fly A.* Stalk white, very long, from a large bulb, with an annular membrane, which ſoon diſappears. Head firſt campanulate, then plane, ſometimes near a foot in diameter, blood-red, warty, ſtriated at the edge. Gills white; lamellæ ſlender, white, numerous. Fœtid, ſaid to be poiſonous. Sept. In the meadows between Hampſtead and Highgate. *Ger.* 1481.

5. Extinctorius. *Extinguiſher A.* Stalk long, ſubulate. Head conic, torn, white. Gills white. In meadows, &c. *Bolt.* 24. S. Brit.

6. Umbelliferus. *Trembling A.* Small, white. Head convex, membranous, plicated, pellucid. Stalk long, ſlender. Oct. —Nov. Among old leaves in woods. *Michel.* 166. 1. 80.

7. Androſaceus. *Black-ſtalked A.* Differs from the laſt in having a black ſtem. On rotten wood. *Schoef.* 239.

8. Clavatus. *Nail-headed A.* Scarce an inch high. Stalk ſize of a pin, crooked, yellow. Cap ſize of a pin's head, yellow.

Gills white. On decayed leaves and moſs. *Schaef.* 222. LIGHTF.

9. Eburneus. *Ivory A.* Gills very few, ſhort, in pairs. Cap white, convex. Stem white, cylindrical. October. In meadows. *Bolt.* 4.

10. Cyathiformis. *Drinking glaſs A.* Cap white, glaſs-ſhaped. Stem white, cylindrical. Gills white, four or eight in a ſet. Aug. *Schaef.* 207. 3.

11. Obeſus. *Thick and ſhort A.* Cap white, nearly flat. Stem white, ſolid, very thick, ſhort, like an inverted cone. Gills white. Auguſt. In paſtures among moſs. *Schaef.* 307.

12. Piſtillaris. *Peſtle A.* Stem whitiſh, conical. Cap whitiſh, convex. Gills white, in pairs, very ſhort. Auguſt. Among graſs and moſs. *Batſch.* 62.

13. Tigrinus. *Tiger A.* Stem ſpotted. Cap whittiſh, ſpotted, depreſſed. Gills yellowiſh white, four in a ſet. On decayed trunks of trees. *Bulliard.* 70.

14. Caſeus. *Cream-cheeſe A.* Stem cylindrical, upright. Cap pale mouſe coloured, gently convex, turned in at the edge. Gills white, 4 in a ſet. In dry woods about Halifax. *Bolt.* 40.

15. Umbraculum. *Umbrella A.* Stem brown, cylindrical, woolly at the bottom. Cap brown, conical, ſcored. Gills dirty white, 4 in a ſet. *Batſch.* 4.

16. Agreſtis.

16. Agreſtis. *Thin-edged A.* Stem pale brown, ſmooth, cylindrical. Cap pale brown, darkeſt in the center, convex. Gills browniſh white, irregular. In paſtures.

17. Umbonatus. *Boſſed A.* Stalk pale brown, cylindrical, ſolid, crooked. Cap browniſh, gently convex, the emboſſment in the centre dark brown, much elevated. Gills white, four in a ſet.

18. Membranaceus. *Parchment A.* Stem two inches long, tough, reverſed. Cap ſize of half a crown, a little convex. Gills dirty white, thin. In dry paſtures. Eſteemed by the French. *Schoef.* 220. LIGHTF.

19. Velatus. *Hooded A.* Stalk cylindrical, buff, with brown ſcales. Cap pinky brown, nearly flat, edge turned down. Gills dirty white, not numerous, four in a ſet. In fir plantations. *Schoef.* 36.

20. Cumulatus. *Crowded A.* Stalk yellow brown, bulboſe at the baſe, ſolid. Cap reddiſh brown, woolly. Gills white, four in a ſet. *Fl. Dan.* 1013.

21. Coralloides. *Coral A.* Stem ſolid, whitiſh, thickeſt in the middle. Cap tawny red, convex, ſmooth. Gills whitiſh, few. October. In hollow trees. *Scopoli* 35.

22. Verſicolor. *Changeable A.* Stem white or brown. Cap greeniſh yellow, convex, edge turned in. Gills yellow white. *Withering.*

23. Graveolens. *Strong ſcented A.* Stem white, ſolid, about two inches long. Head

white. Gills white, very numerous, irregular, four in a ſet. *With.*

24. Fimbriatus. *Curled A.* Stem ſolid, pellucid, whitiſh. Cap whitiſh, funnel ſhaped, curling at the edge. Gills nearly gelatinous. Aug. In moiſt woods about Halifax. *Bolt.* 61.

25. Depreſſus. *Concave A.* Stem ſolid, of a pinky white. Cap four or five inches over, browniſh white, much depreſſed in the center, edge turned down. Gills white, four in a ſet. Juice milky. *Withering.*

26. Æſtivus. *Cream coloured A.* Stem whitiſh, ſolid. Ring permanent. Cap cream coloured. Gills whitiſh, lamina very white. *With.*

27. Lacer. *Lacerated A.* Stem white, ſolid, crooked. Cap whitiſh, tearing at the edge. Gills white, fleſhy, connected by tranverſe ligaments. *Schoef.* 257.

28. Opacus. *Opaque A.* Stem white, ſolid. Head dead white, nearly flat, two inches in diameter. Gills white, numerous. *Withering.*

29. Fragrans. *Fragrant A.* Stalk browniſh white. Cap browniſh white, ſemitranſparent. Gills browniſh white, very regular. Among the firs on Claverton down, near Bath.

30. Furfuroſus. *Scaly A.* Root bulbous, ſtalk ſolid, crooked, yellowiſh brown, cracking. Head of the ſame colour, ſcaly. Gills whitiſh, irregular.

31. Craſſipes.

31. Craſſipes. *Spindle-ſtemmed A.* Stalk ſolid, ribed, tapering downwards. Cap reddiſh brown, cracking, two or three inches in diameter. Gills white, browniſh at the edge, fleſhy, four in a ſet. *Schoef.* 88. 1.

32. Terreus. *Dirt-coloured A.* Stalk ſolid, white, conical. Cap brown, convex, irregular, cracking. Gills white, numerous, eight in a ſet. *Schoef.* 64.

33. Leucocephalus. *Palefaced A.* Stem ſolid, white, cylindrical, crooked, brittle. Cap two to four inches in diameter, convex, of a mouſe colour in the center, border white or pinky. Gills white, four in a ſet. *Bull.* 436.

34. Plumoſus. *Feathered A.* Stem ſolid, mouſe coloured, tufted, crooked. Head of the ſame colour, convex. Gills like the laſt. *Bull.* 33.

35. Gracilis. *Elegant A.* Stalk ſolid, tall, ſlender, browniſh, eight inches high. Cap light brown, flat, thin, boſſed. Gills very white, diſtant, fleſhy, eight in a ſet. *Withering.*

36. Elaſticus. *Elaſtic A.* Stalk ſolid, buff coloured, ſmalleſt in the middle. Cap cheſnut coloured, ſemiglobular. Gills white, 4 in a ſet. *Schoef.* 87. 4. 5.

37. Stipitis. *Stump A.* Root bulbous. Stalk ſolid, pale brown. Ring white, permanent. Cap light brown, woolly, and darker in the center. Gills white, four in a ſet. On ſtumps of trees. *Bolt.* 136. *Fl. dan.* 1013.

38. Cyathoides. *Cupped A.* Stalk ſolid, greyiſh white, with reticulated veins of a whiter colour. Cap brown, flat, but turning up as it grows old. Gills white, four in a ſet. *Bolt.* 145.

39. Zonarius. *Circled A.* Stem ſolid, cylindrical, yellow white. Cap a little convex, pale brown, with darker coloured circles, edge turned in. Gills irregular, yellowiſh white, four in a ſet. *Schoef.* 235.

40. Truncatus. *Flat-topped A.* Stalk ſolid, whitiſh. Cap bright red, conical, but flat, when young. Gills dirty white, in pairs. *Schoef.* 251.

41. Croceus. *Saffron-coloured A.* Stem ſolid, white, covered in ſome parts with a yellow knap. Cap conical, yellow. Gills white, four in a ſet. *Bull.* 362.

42. Elephantinus. *Elephant A.* Stem ſolid, white. Cap browniſh yellow, becoming black with age, and then cracking. Gills yellowiſh white, diſtant, fleſhy. *Bolt.* 28.

43. Viridis. *Green A.* Stem ſolid, whitiſh, cylindrical. Cap greeniſh blue, two or three inches in diameter. Gills white, brittle, fleſhy, four in a ſet. In woods. *Bolt.* 12.

44. Bulboſus. *Bulbous A.* Stalk ſolid, white, cylindrical. Cap convex, white. Gills white, irregular. *Schoef.* 241.

45. Confertus.

45. Confertus. *Stove A.* Stalk ſolid, white, tapering upwards. Cap white, conical, cottony. Gills browniſh white, thin, regular. *Bolton* 18.

46. Albus. *White A.* Stalk like the former. Cap conical, ſmooth like vellum, bluntly conical, brown at the top. Gills white, numerous. *Bolton.* 153.

47. Splendens. *Reſplendent A.* Stalk browniſh white, tapering upwards. Cap gloſſy, like tarniſhed copper, conical. Gills very white, numerous, two to four in a ſet. *Withering.*

48. Radicatus. *Long rooted A.* Root ſpindle ſhaped, long. Stalk brown, tapering upwards. Cap browniſh, bluntly conical. Gills white, few, four in a ſet. *Bull.* 232.

49. Orcades. *Fairy ring A.* Stem ſolid, white, cylindrical, very tough, becoming browner with age. Cap pale, brown, convex. Gills browniſh white, two or four in a ſet. *Bull.* 144.

50. Pulvinatus. *Cuſhion A.* Stalk dark grey, tapering upwards. Cap light brown. Gills greyiſh light, four in a ſet. Ruffle permanent. *Bolt.* 49.

51. Horizontalis. *Horizontal A.* Stalk bent horizontally. Cap yellow brown, convex, not quite round. Gills yellow white, four in a ſet. *Bul.* 324.

52. Avellanus. *Hazel nut A.* Stalk brown yellow. Cap gently convex, a rich reddiſh

yellow. Gills white, numerous, irregular. *Withering.*

53. Georgii. *St. George's Muſhroom.* Stalk firm, ſolid, with white down. Head broad, flat, powdry, white, growing gradually reddiſh, ſtriated and downy at the margin. Gills white, ſolid. Eſculent. In woods. S. Brit.

54. Niveus. *Snow-white A.* Stalk hollow, white, cylindrical. Cap white, viſcid, flattiſh. Gills white, in pairs. *Schoef.* 232. Found by Major Velley on Clarendon down.

55. Nemoralis. *Wood A.* Stalk white, hollow, thickeſt at the bottom. Cap white, ſmooth, convex. Gills white, numerous, four in a ſet. *Withering.*

56. Concinnus. *Neat A.* Stalk hollow, white, cylindrical. Cap light brown, conical. Gills white, numerous, broad, four in a ſet. *Bolt.* 15.

57. Varius. *Variable A.* Stalk hollow, cylindrical, gloſſy, ſtiff. Cap conical, pale brown. Gills white, not numerous, two or four in a ſet. *Bull.* 518. There are ſeveral varieties of this ſpecies.

58. Compreſſus. *Compreſſed. A.* Stalk white, hollow, compreſſed. Cap brown, irregular. Gills white, fleſhy, few, two to eight in a ſet. *Withering.*

59. Argenteus. *Silver edged A.* Stalk hollow, white. Cap watry brown, boſſed. Gills browniſh

browniſh white, four or eight, ſhining at the edges. *Withering.*

60. Auricomus. *Filberd A.* Stalk pale brown, hollow, flat at the top and thicker. Cap convex, rich brown, boſſed. Gills browniſh white, few. *Withering.*

61. Plumbeus. *Froſted A.* Root bulbous. Stalk very white, hollow, ring permanent. Cap convex, pale brown when young, froſted over with ſhining particles, ſtreaked at the edge with purpliſh ſtripes. Gills white, numerous, uniform. *Schoef.* 85. 86.

62. Ovalis. *Oval A.* Stem hollow, cylindrical, browniſh white. Cap light brown, boſſed. Gills browniſh white.

63. Purpuraſcens. *Purpliſh A.* Stem hollow, ſmooth, purpliſh white. Cap convex, very thin at the edge, border dark brown, center reddiſh brown. Gills purpliſh white, few, four in a ſet, irregular.

64. Purpureus. *Purple ſtemmed A.* Stem hollow, cylindrical, purple. Cap purpliſh, ſomewhat boſſed. Gills white, four in a ſet. *Bolt.* 41.

65. Subcæruleus. *Blue edged A.* Root large, bulbous. Stem ſmooth, hollow, pale brown. Cap brown in the center, bluiſh at the edge, convex. Gills whitiſh, numerous, four or eight in a ſet. *Withering.*

66. Saccharatus. *Sugared A.* Stalk hollow, cylindrical, white. Cap flat, pale brown, covered with particles like candied ſugar. Gills white, narrow. *Withering.*

67. Tenuis. *Slender A.* Stem hollow, white, pellucid, ſix inches high, very ſmall. Cap campanulate, pellucid, whitiſh brown. Gills few, white, thin, four in a ſet. *Bull.* 320.

68. Clypeolareus. *Mottled A.* Stalk cylindrical, hollow, white to reddiſh buff. Cap convex, ſcurfy, mottled. Gills white, four in a ſet, irregular, numerous. *Bull.* 405.

69. Ochraceus. *Buff-headed A.* Stalk hollow, buffy white, cylindrical. Cap convex, buff, ſemitranſparent. Gills white, four in a ſet. *Schoef.* 255.

70. Fuſco-albus. *Brown and white A.* Stem ſmall, hollow, brown. Cap ſmooth, dark brown, globular. Gills browniſh white, four in a ſet.

71. Piluliformis. *Pill A.* Stem hollow, white, cylindrical. Cap very ſmall, from the ſize of a pin's head to a pea, brown. Gills white. *Bull.* 112.

72. Turbinatus. *Thronging A.* Growing in large cluſters. Stalk hollow, white. Cap nearly cylindrical, yellow brown, covered with pellucid particles. Gills yellowiſh white, in pairs. *Schoef.* 66.

73. Congregatus. *Cluſtered A.* Growing in cluſters. Stalk hollow, white, ſcurfy. Cap conical, browniſh yellow. Gills white, with grey edges, growing black by age. *Bolt.* 54.

74. Leuteoalbus.

74. Luteoalbus. *Briſtle-ſtemmed A.* Stalk the thickneſs of a briſtle, pale yellow. Cap yellow conical, ſcored at the edges. Gills white, four in a ſet. *Bolt.* 38. 1.

75. Puniceus. *Light red A.* Stalk ſolid, white, crooked. Cap convex, dull pink. Gills white, four in a ſet. *Withering.*

76. Labyrinthiformis. *Labyrinth A.* Stalk ſolid, knotty, four or five inches long, browniſh white. Cap white, downy, ſemicircular, ſcalloped at the edges. Gills white, laminæ running together. *Withering.*

77. Seſſilis. *Seſſile A.* Stalk very ſhort or ſcarcely any, being only a blackiſh globular ſubſtance. Cap pure white, thin, flat. Gills yellowiſh white, forked. *Bull.* 152.

78. Dimidiatus. *Aſh A.* Stalk ſolid, lateral, whitiſh. Cap greyiſh, convex, ſemicircular, ſcaly, fleſhy, turned in at the edge. Gills whitiſh, branching near the edge. *Schoef.* 232.

* * *Gills yellow.*

79. Fragilis. *Brittle A.* Stalk bright. Head convex, clammy, pellucid, yellow. Gills deep-yellow. On heaths. *Schoef.* 230.

80. Equeſtris. *Starry A.* Stalk yellow, cylindrical. Head convex, pallid; diſk ſtarred with yellow. Gills pale-yellow. On heaths frequent. *Bolt.* 65.

81. Velutipes. *Velvet ſtalked A.* Stalk three inches, ſooty, ſize of a quill, hollow, without ruffle

ruffle or bulb. Cap from one to three inches, ſhapeleſs, orange-tawny. Gills yellowiſh or black. *Curt.* iii. 70.

2. Teſtaceus. *Yellow A.* Stalk ſolid, yellow, thickeſt towards the root. Cap deep yellow, boſſed in the center. Gills browniſh yellow, four in a ſet. *Schoef.* 65.

83. Aduſtus. *Parched A.* Stalk ſolid, yellowiſh brown, with a few red ſtains. Cap of the ſame colour; convex, edges much turned in. Gills pale yellow, uniform, forked. *Schoef.* 71. 72.

84. Tubæformis. *Trumpet A.* Stalk ſolid, very long, crooked. Cap bright yellow, funnel ſhaped. Gills bright yellow. *Schoef.* 248. 249.

85. Contiguus. *Wooly edged A.* Stem ſolid, dark brown, with red ſtripes. Cap light brown, nearly flat, edges woolly, turned in. Gills yellow, very numerous, in general branched. *Bull.* 240.

86. Necator. *Deadly A.* Stalk ſolid, an inverted cone, pale buff, crooked. Cap flat, buff, rather deeper in the center, and hollow, rolled in at the edges, and woolly. Gills pale yellow, moſtly in pairs, the longeſt frequently forked. Juice milky, extremely burning and acrid. *Bull.* 529.

87. Fulvus. *Tawny A.* Stem ſolid, whitiſh, cylindrical, tapering a little towards the root. Cap red buff, redder in the center, becoming convex, and tearing at the edges, as it grows

grows old. Gills pale yellow, not numerous. *Schoef.* 50. 54.

88. Chantarellus. *Yellow A. or Champignon.* Stem ſolid, ſhort. Cap depreſſed in the center, deformed, pale yellow. Gills yellow, lamellæ branched, decurrent. *Fl. dan.* 264.

89. Connatus. *Many ſtemmed A.* Stalk ſolid, cylindrical, ſmooth, ſeveral riſing from one fibrous root, dirty buff. Cap convex, pale yellow, tawny in the center. Gills narrow, pale yellow, four in a ſet. *Bolt.* 148.

90. Squamoſus. *Brown-yellow A.* Stalk ſolid, ſcaly, brown yellow. Cap irregularly convex, ſcaly, brown yellow. Gills light yellow, dentate at the edge, four in a ſet. *Schoef.* 29. 30.

91. Peronatus. *Spatter-daſhed A.* Stalk ſolid, tough, pale yellow, covered on the lower part with a yellow wool. Cap brown, thin, almoſt tranſparent. Gills few, thin, narrow, pale yellow. *Bolt.* 58.

92. Rigidus. *Rigid A.* Stalk dingy brown, thickeſt in the middle. Cap reddiſh brown, conical, turning in at the edges, and ſplitting as it grows older. Gills pale yellow, few, fleſhy, in pairs. *Bolt.* 43.

93. Cæſareus. *Imperial A.* Stem ſolid, nearly cylindrical, tapering upwards, rich buff with roſe. Cap lake red to rich orange buff. Gills golden yellow, four in a ſet. Very rare. *Withering.* 330.

94. Sulcatus.

94. Sulcatus. *Grooved A.* Stalk ſolid, velvety, yellow, at the lower part a rich brown. Cap convex, rather depreſſed in the middle, orange becoming yellow at the edges. Gills yellow, grooved at the edges. *Bolt.* 135.

95. Minutulus. *Minute A.* Stalk ſolid, white, very ſlender. Cap campanulate, brown yellow. Gills yellow, few, uniform. In paſtures in Autumn. *Schoef.* 308.

96. Luteus. *Cotton tufted A.* Stalk ſolid, yellow, tapering upwards. Cap yellow, conical, tufted. Gills yellow, numerous uniform. *Bolt.* 50.

97. Xerampelinus. *Purple A.* Stem ſolid, cylindrical, brown or pinky yellow. Cap globular, feels like cloth, purple, three inches diameter. Gills ſtrong, fleſhy, brittle, bright yellow, two or four in a ſet. *Scopoli.*

98. Parvus. *Small orange A.* Stalk hollow, orange, very ſmall. Cap orange, depreſſed in the center. Gills deep orange, in pairs. *Bull.* 519.

99. Umbilicatus. *Navel A.* Stalk hollow, cylindrical, reddiſh buff. Cap buff, hollow in the center. Gills dirty yellow, ſome of them very broad. *Bull.* 411. 2.

100. Primula. *Primroſe A.* Stalk hollow, yellow, tapering downwards. Cap darkiſh brown in the center, yellow at the edges. Gills primroſe colour, four in a ſet. *Wood.*

101. Aurantius.

101. Aurantius. *Orange A.* Stalk hollow, yellow, ſplitting. Cap glutinous, conical, orange, edge uneven, cracking. Gills yellow, fleſhy, four or eight in a ſet. *Lightfoot. Fl. dan.* 833.

102. Ceraceus. *Bees wax A.* Stem hollow, deep yellow, cylindrical. Cap convex, deep yellow, ſmooth. Gills pale yellow, in pairs.

103. Aquoſus. *Watery A.* Stem hollow, dirty white. Cap pale yellow, conical, ſmooth, glutinous. Gills pale yellow, four in a ſet. *Bolt.* 71. 1.

104. Flavus. *Renting A.*: Stalk hollow, twiſted, furrowed, compreſſed. Cap conical, pale yellow, thin, ſmooth, ſhining, tearing as it grows older, almoſt to the center. Gills pale yellow, irregular. *Bolt.* 68.

* * * *Gills purple.*

105. Amethyſtinus. *Amethyſt A.* Stalk ſolid, pale purple, cylindrical. Cap purple, ſmooth, convex. Gills purple, few. *Bull.* 198.

106. Viſcidus. *Clammy A.* Stem pale brown, cylindrical, thick. Head convex, purpliſh, brown, viſcid. Gills purple, four in a ſet.

107. Rutilus. *Ruddy A.* Stalk ſolid, cylindrical, reddiſh purple. Cap flat, thick, ſmooth, reddiſh purple. Gills thick, purple, coriaceous, few, in pairs. *Schoef.* 55.

108. Violaceus. *Violet A.* Stem ſhort, cylindrical, thick, downy, bulbous. Head very large, pale, purple, convex. Eſculent. Gills purple, numerous. Near woods, in meadows, &c. *Schoef.* 3.

109. Cyaneus. *Painted A.* Root bulbous. Stalk bluiſh green, ſcored. Cap conical, bluiſh green, a little turned in at the edge. Gills browniſh purple, numerous. *Bolt.* 30.

110. Tortilis. *Garden A.* Stalk ſolid, duſky fleſh colour. Cap red brown, convex, turning up as it grows older. Gills purpliſh, few. *Bolt.* 41. *A.*

* * * * *Gills brown.*

111. Lactifluus. *Milky A.* Stem long, fleſh colour. Head fleſh-colour, a little concave, raiſed at the edge. Gills reddiſh brown. Contains a ſweetiſh milk. Taſte agreeable, and not pernicious. In woods. *Schoef.* 5.

112. Clypeatus. *Shield A.* Root bulbous, long, hooked at the end. Stalk white or grey, viſcid. Head hemiſpherical, pointed, clammy, ſtriated. Gills greyiſh brown. In woods, *Schoef.* 52.

113. Caſtaneus. *Cheſnut A.* Stalk ſolid, yellow brown. Cap of the ſame colour, concave, viſcid. Gills yellow brown, irregular, numerous. *Bolt.* 22.

114. Rubeſcens. *Bronze A.* Stalk ſolid, reddiſh brown. Cap of the ſame colour, having

circular lines of a darker hue, flat, but rather hollower in the center. Gills reddiſh brown. *Schoef.* 73. Juice milky, acrid.

115. Seroſus. *Whey A.* Stalk ſolid, ſmooth, light brown, crooked, cylindrical. Cap convex, but rather hollower in the middle, light brown, mottled, darker in the center. Gills brown, numerous, four in a ſet. Juice like whey.

116. Delicatulus. *Tender A.* Stalk ſolid, yellow, cylindrical. Cap flattiſh, yellowiſh brown. Gills brown, white where they unite to the ſtem, large.

117. Araneoſus. *Broad gilled A.* Stem pale brown, ſolid, cylindrical. Cap convex, brown, cracked. Gills broad, ſhort, deep brown, four in a ſet. Ruffle pale brown. *Bull.* 431. 4.

118. Sordidus. *Sordid A.* Root bulbous. Stalk brown, ſolid, cylindrical. Cap funnel ſhaped, brown, darker in the center. Gills brown, eight in a ſet. *Dicks.* 3. 1.

119. Vaccinus. *Brinded A.* Stem brown, ſolid, cylindrical. Cap brown, convex, ſcurfy, ſlightly boſſed. Gills pale brown, with white edges, eight in a ſet. *Schoef.* 25.

120. Subpurpuraſcens. *Violet A.* Root bulbous. Stalk ſolid, ſcurfy, violet. Cap convex, brown, turning up at the edges as it grows old. Gills brown, numerous.

121. Lacticaulis. *Milky ſtemmed A.* Stalk ſolid, white, cylindrical, ſplitting, juice milky, but not acrid. Cap convex, light brown, whitiſh at the edges. Gills brown, very numerous.

122. Orichalceus. *Spaniſh ſnuff A.* Stalk ſolid, whitiſh, ſometimes of a colour like Spaniſh ſnuff. Cap light brown, convex, turned in at the edge. Gills brown, few, four or eight in a ſet. *Batſch.* 184.

123. Rimoſus. *Striped A.* Stalk ſolid, cylindrical, yellowiſh white. Cap conical, having brown and yellow ſtripes occaſioned by cracks, extending from the edge to near the center. Gills olive brown. *Bull.* 388.

124. Badius. *Bay A.* Stalk ſolid, ſmooth, pale brown, covered at its baſe with a permanent ruffle. Cap yellowiſh brown, ſmooth, in ſtreaks near the edge. Gills pale brown, diſtant, uniform. *Schoef.* 245.

125. Palmatus. *Palmate A.* Stalk ſolid, ſtrong, reddiſh white. Cap deep brown, flat, membranaceous at the edge. Gills red brown, few, irregular. *Bull.* 216.

126. Canaliculatus. *Domeſtic A.* Stem ſolid, white, tender. Cap cylindrical, channelled, light brown, reddiſh at the top. Gills blackiſh brown.

127. Octogonus. *Octagon A.* Stalk a tranſparent brown, hollow. Cap brown, convex, octagonal. Gills pale brown, ſome of them very

very broad, white at the edges. *Withering.*

128. Ligatus. *Corded A.* Stalk hollow, pale brown. Cap flat, pale brown, darker in the center. Gills pale brown, four in a ſet.

129. Partitus. *Clover ſtemmed A.* Stalk light brown, ſplitting at the upper part, cylindrical. Cap pale brown, conical. Gills pale brown, few. *Withering.*

130. Lacrimalis. *Red brown A.* Stalk hollow, reddiſh brown. Cap yellowiſh brown, ſcored at the ſides. Gills deep red brown, few, ſemitranſparent. *Batſch.* 6.

131. Circumſeptus. *Scurfy A.* Stalk hollow, whitiſh brown, cylindrical. Cap whitiſh brown, convex, ſcurfy, dimpled. Gills reddiſh brown, four in a ſet. *Batſch.* 98.

132. Tener. *Nut brown A.* Stalk hollow, nut brown, ſmooth, ſplitting. Cap deep buff, with dark brown edges, bluntly conical. Gills nut brown, few, four in a ſet, the ends extending beyond the edge of the cap. *Schaef.* 70.

133. Vulpinus. *Foxy A.* Stalk hollow, fox coloured. Cap reddiſh brown, ſmall, flattiſh. Gills cheſnut, firm.

134. Hypni. *Moſs A.* Stalk tawny, hollow, cylindrical, ſhining. Cap conical, reddiſh brown. Gills light brown, four in a ſet. *Batſch.* 96.

135. Laciniatus. *Ragged A.* Stalk hollow, white, tapering downwards. Cap light brown, ſemiglobular, ſmooth. Gills brown, very broad, ragged at the edges. *Withering.*

136. Fimiputris. *Equilateral A.* Stalk hollow, white, cylindrical. Cap pale brown, conical, apex blunt and poliſhed. Gills dark brown to black, numerous, four or eight in a ſet. *Bull.* 66.

137. Melleus. *Honey A.* Stalk hollow, whitiſh, ſcurfy and browniſh at the lower part, crooked, cylindrical. Cap yellowiſh brown, darker in the center, nearly conical, ſmooth, viſcid. Gills pale brown, four in a ſet. *Schoef.* 45.

138. Macer. *Fleſhleſs A.* Stalk hollow, white, cylindrical, ſmooth. Cap conical when young, growing flat with age, boſſed, thin and almoſt tranſparent, pale dirty brown. Gills thin, numerous, pale pinky brown. *Bull.* 518. *F.*

139. Viridarius. *Graſs plat A.* Stem hollow, cylindrical, ſmooth, pale buff. Cap bright buff, convex, covered with a powdery matter. Gills pale brown, four in a ſet. *Schoef.* 226.

140. Colus. *Diſtaff A.* Stalk white, cylindrical. Cap high, nearly cylindrical, white. Gills red brown, thin, numerous.

141. Atrorufus. *Dark brown B.* Stem hollow, brown, cylindrical, elaſtic. Cap dark brown,

brown, conical towards the center. Gills reddiſh brown, few. *Schoef.* 234.

142. Xylopes. *Cotton ſtemmed A.* Stalk hollow, long, very ſmall. Cap flat, brown. Gills brown, numerous. *Withering.*

143. Metabilis. *Variable A.* Stalk hollow, whitiſh on the upper part, red brown below. Cap yellowiſh brown, convex. Gills light brown. *Schoef.* 9.

144. Cuſpidatus. *Pointed A.* Stalk hollow, browniſh, cylindrical, ſmooth. Cap light brown, acutely conical. Gills light brown, four in a ſet. *Bolt.* 66. 2.

145. Nuceus. *Spaniſh nut A.* Stalk white, hollow. Cap red brown, in lobes at the edges, and turning in. Gills broad, thin, pale brown. *Bolt.* 70.

146. Corrugatus. *Crumpled A.* Stalk hollow, crooked, white, tapering upwards. Cap brown, ſkinny, crumpled, convex. Gills pale brown, ſhallow, diſtant. *Withering.*

147. Marginatus. *Bordered A.* Stalk hollow, reddiſh brown, ſcored, ſcurfy. Cap ruſt colour, convex, ſmooth, leathery at the edge. Gills ruſt colour, few, four in a ſet. *Batſch.* 207.

148. Mollis. *Gelatinous A.* Almoſt without ſtalk. Cap whitiſh, convex, dirty white, wrinkled, almoſt gelatinous. Gills ruſt colour, eight in a ſet. *Schoef.* 213.

149. Ficoides. *Fig A.* Stalk very ſhort, light brown, woolly. Cap yellowiſh brown, cracked. Gills watry brown, four or eight in a ſet. *Batſch.* 122.

150. Conchatus. *Shell A.* Stalk brown, ſhort, ſolid. Cap brown, ſkinny, glutinous, turned in at the edge. Gills numerous, irregular, bright brown. *Bull.* 298.

151. Planus. *Flat A.* Stalk very ſhort, ſolid. Cap ſmooth, light brown, flat, waved at the edge. Gills light brown, thin, four in a ſet. *Bolt.* 72. 3.

152. Flabelliformis. *Fan A.* Stalk ſolid, ſhort, dark brown. Cap ſmooth, tough, leathery, whitiſh. Gills numerous, yellowiſh brown. *Schoef.* 208.

* * * * * *Gills grey.*

153. Mammoſus. *Breaſt A.* Stalk ſolid, long. Head conical, grey. Gills convex, grey, notched. In woods. *Bolt.* 69.

154. Ovatus. *Puckered A.* Stalk cylindrical, white, fiſtular, three to ſix inches; head when young, oval, ſtriated, grey or pale brown; rim contracted, when full-grown bell-ſhaped, and finally lacerated. Gills ſilvery grey. Generally in cluſters on dung-hills. *Curt.* ii. 72.

155. Campanulatus. *Bell A.* Stalk long, grey, ſmooth. Head campanulate, ſtriated, pel-

lucid, grey. Gills grey. In paſtures. *Schoef.* 32. 211.

156. Plicatilis. *Plaited A.* Stalk ſingle, 2 inches, thickneſs of a ſtraw, white. Cap campanulate, yellow-brown when full grown; afterwards flat, above an inch in diameter, and plaited. Gills grey. *Curt.* iii. 70.

157. Durus. *Hard A.* Stalk ſolid, cylindrical, whitiſh yellow. Cap convex, duſky yellow. Gills light grey, thin, broad, very numerous. *Bolt.* 67. 1.

158. Luridus. *Lurid A.* Stalk ſolid, crooked, dirty yellow. Cap ſmooth, conical, covered with a thick ſlime, divided at the edges, into unequal lobes. Gills very broad, dirty grey, numerous. *Bolt.* 25.

159. Morus. *Mulberry A.* Stalk hollow, cylindrical, dark red or mulberry colour. Cap pale brown, conical, reddiſh at the top. Gills bluiſh grey, changing to black, numerous, four or eight in a ſet. *Woodward.*

160. Infundibuliformis. *Funnel-ſhaped A.* Stalk hollow, expanding at the top like a funnel, gills like veins, running one into the other, light grey. *Bolt.* 34.

161. Semiglobatus. *Hemiſpherical A*, Stalk hollow, pale buff. Cap ſemiglobular, glutinous, yellowiſh brown. Gills mottled, grey, four or eight in a ſet. *Glutinoſus Curtis.* 194.

162. Coronatus.

162. Coronatus. *Crowned A.* Stalk hollow, whitiſh brown, cylindrical. Cap conical, browniſh white. Gills grey, four in a ſet. *Withering.*

163. Momentaneus. *Short lived A.* Stalk ſmall, hollow, white. Cap thin, grey, firſt conical, afterwards flat. Gills grey, uniform. *Bull.* 128.

164. Fimetarius. *Egg A.* Stalk long, hollow, white. Head campanulate, torn. Gills grey. On dunghills frequent.

165. Semiovatus. *Half egg ſhaped A.* Stalk ſmooth, hollow, white, cylindrical. Cap whitiſh yellow, ſmooth, like the larger end of an egg. Gills dark grey, becoming black.

166. Cinctulus. *Belted A.* Stalk hollow, cylindrical, dirty brown. Cap two or three inches in diameter, reddiſh brown, with a broad dark brown belt. Gills brittle, blackiſh grey, four in a ſet. *Bolt.* 162.

* * * * * * *Gills red.*

167. Piperatus. *Pepper A.* Stalk hollow, pale yellow. Head almoſt flat, firſt white, then brown, containing a very acrid milk. Gills pale fleſh colour. In woods. *Schoef.* 83.

168. Verrucoſus. *Warty A.* Stem four and a half by three quarters of an inch, bulbed and ruffled, reddiſh, ſpotted. Ruffle large, pendant, permanent. Cap three inches, hemiſpherical

hemiſpherical, then flat, reddiſh or yellowiſh. In woods, ſingle. *Curt.* v. 72.

169. Carnoſus. *Fleſhy A.* Stalk three inches by half an inch, clumſy, naked, with red ſpots. Cap one to three inches, white, reddiſh in the middle, firm, thick. *Curt.* v. 71.

170. Glutinoſus. *Slimy A.* Stalk generally ſingle, two to four inches, thickneſs of a crow-quill, almoſt ſolid. Head ſtraw colour, hemiſpherical. Gills horizontal, reddiſh brown. *Curt.* iii. 69.

171. Campeſtris. *Common muſhroom A.* Stalk ſolid, white, cylindrical. Head convex, ſcaly. Gills deep fleſh-colour. In paſtures frequent. *Sterb.* 1. *Fl. dan.* 714.

172. Cinnamomeus. *Brown A.* Stalk hollow, yellow. Head convex, browniſh yellow. Gills deep red. In woods frequent.

173. Æruginoſus. *Verdigris A.* Stalk two or three inches, bluiſh, crooked, round, ſhaggy below the ruffle. Cap one to two inches, conical, viſcid, green. Gills lilac. *Curt.* v. 70.

174. Roſellus. *Pinky A.* Stalk ſolid, pinky red. Cap convex, brown red. Gills deep pink, not numerous. *Batſch.* 99.

175. Jecorinus. *Liver coloured A.* Stalk ſolid, ſpongy, tapering downwards. Cap flat, pinky brown, turned in at the edge, ſhining, ſmooth.

ſmooth. Gills rich pink, becoming blacker with age, numerous, in pairs.

176. Delicioſus. *Saffron juiced A.* Stalk ſolid, orange coloured, tapering downwards. Juice rich yellow. Cap rich red brown. Gills narrow, flame coloured, branched.

177. Rubens. *Ruby A.* Stalk ſolid, bright red. Cap gently conical, dark red. Gills thin, tranſparent bright red, four in a ſet. *Bolt.* 36.

178. Latus. *Broad A.* Stalk ſolid, white, cylindrical, ſpongy. Cap ſmooth, when young, light brown, convex, from 2 to 5 inches over. Gills white when young, afterwards becoming pale fleſh coloured, numerous, irregular. *Bolt.* 2.

179. Farinaceus. *Mealy A.* Stalk hollow, pale reddiſh brown, thicker at the upper part. Cap of the ſame colour, boſſed. Gills pale, pink, few, four in a ſet, ſcalloped at the edges. *Schoef.* 13.

180. Irregularis. *Irregular A.* Stalk hollow, whitiſh, nearly cylindrical, but larger and flatter at the top. Gills roſe colour, broad, few, diſtant, four in a ſet. *Bolt.* 13.

181. Roſeus. *Roſy A.* Stalk hollow, pale roſe colour, cylindrical, ſmooth. Cap of the ſame colour, tearing at the edges, and turning up as it grows older. Gills roſe colour, four in a ſet, connected by croſs threads. *Bull.* 162.

182. Cylindricus. *Cylindrical A.* Stalk hollow, cylindrical, white. Cap white, cylindrical, covered with ſcurfy ſcales. Gills numerous, white when young, becoming afterwards

wards pinky, and as it grows old, becoming black. *Curt.* II. 16.

183. Appendiculatus. *Tattered A.* Stalk hollow, white, cylindrical, ſmooth. Cap conical, pale buff, darker in the center, tearing at the edge, and becoming ragged. Gills reddiſh brown, numerous. *Schoef.* 17.

184. Lacrymabundus. *Weeping A.* Stalk hollow, dirty white. Head dirty brown, conical, woolly. Gills dull red, broad, numerous, exceeding a thin milky fluid, which concretes into black ſpecks. *Bull.* 525. 3.

185. Reticulatus. *Net work A.* Stalk hollow, watry white. Cap convex, brown, covered in the center with a kind of net work which riſes above the ſurface. Gills pale fleſh colour, moſtly in pairs. *Withering.*

******* *Gills buff.*

186. Flocoſus. *Shaggy A.* Stalk four inches, half an inch diameter, naked above the ring, which is ſmall and near the cap. Cap from one to four inches, yellow-brown, convex: the whole ſhaggy. Gills buff, numerous, becoming browniſh. *Curt.* iv. 71.

187. Dulcis. *Mild A.* Stalk hollow, buff colour. Cap dark buff, concave. Gills buff, numerous. Juice milky, mild. *Bull.* 224.

188. Livido rubeſcens. *Brown ſugar A.* Stalk ſolid, ſmooth, white. Cap light brown, concave, edges turned down. Gills buff, numerous.

merous, ſprinkled with a ſubſtance reſembling brown ſugar. *Bull.* 282.

189. Acris. *Acrid A.* Stalk ſolid, tapering to the root, whitiſh, crooked. Cap brown, viſcid, ſhining, irregular, concave. Gills reddiſh buff, branching. Juice milky, acrid. *Bolt.* 60.

190. Calyciformis. *Rummer A.* Stalk ſolid, browniſh buff. Cap brown, turning up ſo as to reſemble a rummer glaſs. Gills buff, numerous. *Batſch.* 118.

191. Illitus. *Gluey A.* Stalk buff. Cap nearly flat, coriaceous, ſmooth. Gills buff, narrow, few, curling up as they dry, and adhering to the cap by the means of a gelatinous ſubſtance, ſecreted by the plant.

192. Ruber. *Orange red A.* Stalk ſolid, reddiſh, cylindrical. Cap flat, red, depreſſed in the center, and turning down at the edge. Gills buff, numerous.

193. Hinnuleus. *Fawn coloured A.* Stalk ſolid, ſpongy, cheſnut. Cap fawn coloured, convex, mealy. Gills buff, very broad.

194. Subcarneus. *Fleſh coloured A.* Stalk hollow, viſcid, cylindrical, ſhining, buff. Cap reddiſh buff, convex, viſcid. Gills buff. *Batſch.* 100.

195. Scarioſus. *Scurfy A.* Stem hollow, cylindrical, whitiſh above, dark brown, and ſcurfy below. Gills deep buff, numerous. *Withering.*

196. Dryophillus.

196. Dryophyllus. *Spreading A.* Stalk hollow, ſhining, tapering upwards, white. Cap convex, becoming nearly flat, whitiſh. Gills pale buff, broad, few. *Bolt.* 6.

197. Reniformis. *Kidney ſhaped A.* Stem very ſhort. Cap bright brown, reniform, ſmooth, curling at the edge. Gills pale buff, four in a ſet, tough. *Bolt.* 157.

198. Fœtidus. *Stinking A.* Thick, blackiſh, very ſhort. Cap convex, dirty buff, turned in at the edge. Gills buff, diſtant, broad, gelatinous.

* * * * * * * * *Gills green.*

199. Faſcicularis. *Cluſtered A.* Stalk hollow, yellow, crooked. Cap yellow, conical. Gills browniſh green, numerous. *Schoef.* 49. 1. 2. 3.

Paraſitic, without a ſtem, with half a head.

200. Quercinus. *Oak A.* Large, convex, hairy, colour various. Gills generally brown, ſtiff, labyrinthiform. On the trunks of oak and other trees. *Schoef.* 57.

201. Betulinus. *Birch A.* Coriaceous, hairy, margin obtuſe; lamellæ branched, reddiſh yellow, communicating with each other. On the trunks of various trees. S. Brit.

202. Alneus.

202. Alneus. *Alder A.* Hairy, grey; lamellæ thick, bifid, powdery. On the trunks of trees.

203. Applicatus. *Dark grey A.* Cap browniſh grey, rather convex. Gills grey. *Batſch.* 24. 125.

204. Pectinatus. *Pectinated A.* Coriaceous, lamellæ ſimple, ſinuated.

BOLETUS. Horizontal; porous beneath; ſoft and elaſtic, like a cuſhion, above.

* *Paraſitic without a ſtem.*

1. Tenax. *Tough B.* Yellow or buff, like cork; horizontal, imbricated, lobed, arched, ſinuated, convex above and beneath; under ſide porous, pores of a ſulphur colour. *Schoef.* 131. 132. LIGHTF. On trunks of old trees.

2. Suberoſus. *Cork B.* White, ſmooth: pores white, irregular, acute, difformed. On birch and aſh trees, &c. *Bolt.* 162.

3. Fomentarius. *Tinder B.* Unequal, obtuſe; pores cylindrical, equal, bluiſh green. On birch trees, &c. S. Brit.

4. Celluloſus. *Honey comb B.* Spongy, tawny; generally ſemicircular, ſcaly, from five to ten inches broad, horizontal, large quadrangular pores on the under ſide. On the trunk of aſh trees, &c. *Schoef.* 101. LIGHTF.

5. Spongioſus. *Spongy B.* Horizontal, ſemicircular; above, brown, woolly; beneath yellowiſh white

white, porous; very large. On the trunks of trees. July. LIGHTF.

6. Igniarius. *Touch wood B.* Horizontal, ligneous, almoſt circular; above with zones brown, or grey near the rim; beneath plain, yellowiſh, porous. It is the ſtyptic agaric in general uſe ſome time ago, and commonly uſed by the German poſtilions for lighting their pipes. *Schoef.* 137. LIGHTF.

7. Hepaticus. *Liver B.* Dark red, thick, fleſhy; beneath tubular. *Schoef.* 119. Trunks of trees. LIGHTF.

8. Verſicolor. *Striped B.* Convex, with concentric ſtripes of various colours; pores white, ſmall. On trees. *Schoef.* 268.

9. Medullapanis. *Pith like B.* White, cruſtaceous. Pores irregular, white, on the upper ſurface, April. On rotten wood.

10. Salicinus. *Willow B.* Whitiſh, ſmooth, coriaceous, ſoft. Tubes yellowiſh white, very ſhort. May—Oct. On willow trees. *Bolt.* 78.

11. Suaveolens. *Sweet B.* Smooth, ſemicircular, yellowiſh white. Tubes long, ſtraw colour. On the trunks of willow trees. Autumn. *Bull.* 310.

12. Lachrymans. *Dry rot B.* Orange coloured, with a broad white border, wrinkled, reticulated. Tubes white, containing water. On decaying wood in cellars. *Bolt.* 167.

13. Cuticularis. *Yellow brown B.* Dark red brown, ſemicircular, uneven, porous, pores yellow brown. *Bull.* 462.

14. Cryptarum. *Long tubed B.* Ruſt coloured, ſpongy, growing in maſſes on wood in vaults. *Bolt.* 165.

15. Labyrinthiformis. *Rugged B.* Bright red, marked with circles, one within the other of a browniſh colour, rough, wrinkled. *Bolt.* 160.

16. Laciniatus. *Fringed B.* Browniſh, or aſh coloured, covered with warts, fringed at the edge. Tubes very ſhort.

17. Hiſpidus. *Briſtly B.* Bright red when young, becoming black as it grows old, covered with rough briſtly hairs. *Bull.* 210.

18. Velutinus. *Pluſh B.* Irregular, covered with a pluſh-like ſubſtance of a ſilvery grey colour, changing at length to black. *Bull.* 493.

* * *With a ſtem.*

19. Luteus. *Yellow B.* Stem annulated, grey. Head livid or brown, a little clammy; pores convex, yellow. In woods frequent. *Schoef.* 114, 123.

20. Bovinus. *Sponge B.* Stem not annulated, pale brown. Head pale brown, viſcid, ſmooth. Pores large, compoſite, greeniſh yellow. *Bull.* 60.

21. Pellucidus. *Tranſparent B.* Stem whitiſh, thick, ſhort. Cap concave, rich brown, ſcaly. Tubes white, very ſhort. *Schoef.* 122. *Withering.*

22. Polyporus. *Eccentric B.* Stem brown. Head flattiſh, irregular, brown. Tubes white, ſhort. *Bull.* 469.

23. Sub-

23. Subfuſcus. *Pale brown B.* Stem pale brown. Head convex, ſmooth, pale brown. Tubes white, ſhort.

24. Aurantiacus. *Orange B.* Stem yellowiſh white, covered with ſmall pimples. Head orange, viſcid. Tubes light brown. *Bull.* 489.

25. Perennis. *Perennial B.* Stem very ſmall, reddiſh brown. Head flattiſh, leathery, marked with circles of brown and yellow. Tubes yellow brown. *Schoef.* 125.

26. Rubeolarius. *Red brown B.* Stem reddiſh brown. Head of the ſame colour, convex. Tubes olive. Pores red brown. *Schoef.* 107.

27. Subtomentoſus. *Woolly B.* Stem yellow. Head yellow, ſomewhat woolly. Pores angular, of different ſhapes, tawny. *Mich.* 68. 2.

28. Nummularius. *Horny B.* Stem colour of brown horn, black at the baſe. Head of the ſame colour, convex, ſmooth. Tubes buff, very ſhort. *Bull.* 124.

29. Elephantinus. *Elephant B.* Stem ſhort, thick, yellow. Head white, convex, irregular. Tubes yellow, ſhort. *Withering.*

30. Gregarius. *Cluſtered B.* Stalk pale brown, in cluſters. Cap reddiſh brown, flattiſh, thin. Tubes yellow, pores angular, yellow. *Fl. dan.* 1018.

31. Olivaceus. *Olive B.* Stalk brown at the lower part, yellow or crimſon above. Head olive brown. Tubes bright yellow. *Bolt.* 84.

32. Lactifluus. *Milky B.* Stalk bright yellow. Cap light buff, convex, viſcid. Tubes yellow. Juice milky.

33. Chryſenteron. *Pinky B.* Stalk yellow below, pinky above. Head convex, pinky. Tubes yellow. *Bull.* 393.

34. Flavus. *Yellow B.* Stalk yellow, cylindrical. Head orange, viſcid, ſhining, convex. Tubes browniſh yellow. *Bolt.* 169.

35. Sanguineus. *Crimſon B.* Stem yellow, with crimſon ſpots. Head crimſon, changing to brown. Tubes yellow. *With.*

36. Subſtrictus. *Tough B.* Stem yellow, cylindrical. Head yellow, convex, thin. Tubes yellow, pores ſmall. *Bolt.* 170.

37. Lucidus. *Shining B.* Stalk chefnut coloured, ſhining. Head of the ſame colour, flat. Tubes white. *Curtis.* 224.

38. Frondoſus. *Foliated B.* Stem black at the baſe, irregular, expanding ſo as to form the head, which is ſometimes very large, pale brown. Tubes white. *Schoef.* 128. 129.

39. Betulinus. *Pinky-brown B.* Stem black. Head pinky brown, curling in at the edge. Tubes very white, ſhort. *Bolt.* 159.

40. Rangiferinus. *Deers Horn B.* Stem dark brown, branching out ſo as to reſemble the horn of a ſtag, tips of the branches yellow. Pores yellowiſh. *Bolt.* 138.

41. Calceolus. *Slipper B.* Stem white, conical, expanding into a head of a brown colour, thin, waved at the edges. Tubes buff. Pores very ſmall. *Bull.* 46.

42. Lateralis. *Leatherlike B.* Stem yellow, ſpreading out to a head like the former. Tubes yellow, very ſhort. *Bolt.* 83.

HYDNUM.

HYDNUM. Horizontal, prickly beneath.

1. Imbricatum. *Common H.* With a ſtem. Head convex, imbricated, ſcales blackiſh, pointed. Prickles reddiſh. In woods. *Schoef.* 140.

2. Repandum. *Smooth H.* Stem pale yellow, Head rather browner, convex, ſmooth, ſinuated at the edge. Prickles light brown, ſoft, *Bull.* 172. In woods.

3. Minimum. *Leaſt H.* Without ſtem, leathery, tawny. Prickles upright. On rotten wood. *Bolt.* 171.

4. Auriſcalpium. *Earpicker H.* Stem ſolid, brown, tapering upwards. Head ſemicircular, reſembling an ear pick. *Curt.* iii. 32.

5. Coralloides. *Coral H.* Stem whitiſh, branching, branches flattened, and bent downwards at the ends. *Schoef.* 142.

6. Erinaceus. *Hedge-hog H.* Generally ſeſſile, cordate, whitiſh. Prickles imbricate, very long, yellowiſh brown. On old trees. *Bull.* 34.

7. Floriforme. *Flower H.* Stem larger at the baſe, and blackiſh, ſpongy and elaſtic when preſſed ſimilar to cork. Head purpliſh, covered with a down like velvet, flat. Prickles imbricate. *Schoef.* 146. 147.

PHALLUS. Reticular above, ſmooth beneath.

1. Eſculentus. *Eſculent Morel.* Stalk naked. Head oval, cellular, naked, wrinkled, whitiſh. Under the ſhade of aſh and

beech trees, in the ſpring. *Schoef.* 199. &c.

2. Impudicus. *Stinking Morel.* White. Root a bulb. Stem long. Head conic, covered at firſt with reticular films. In woods. *Curt.* iii. 72.

3. Campanulatus. *Bell-ſhaped M.* Stem cylindrical, hollow, ragged, woody. Head bell-ſhaped, covered with a powdery ſubſtance. On ſand banks near Norwich, &c. *Phil. Tranſ.* LXXIV. page 423.

4. Caninus. *Dog's M.* Stem hollow, about three-inches high, yellow, almoſt tranſparent. Head conical, of the ſame ſize with the ſtem, covered with a green ſlimy matter. *Curt.* iv. 39. A rare plant.

HELVELLA. Smooth on both ſides, ſeeds on the under ſurface.

1. Mitra. *Curled H.* Stem thick, grooved, ſemi-tranſparent, fiſtulous. Head curled, lobed, difformed. In damp woods. *Schoef.* 154. &c.

2. Caryophyllæa. *Striated H.* Growing in cluſters on very ſhort ſtems, leathery. Head funnel-ſhaped, brown, with darker lines from the center to the edge, jagged. *Schoef.* 325.

3. Cartilaginea. *Griſtly H.* Stem ſhort, ſolid. Head convex, ſmooth, thin at the edges, ſcarlet, ſemi-tranſparent. *Bolt.* 101. 1.

4. Clavata. *Club H.* Stem yellow, tapering from the baſe upwards. Head ſlanting, yellow, oval. *Schoef.* 149.

5. Aurea.

5. Aurea. *Golden H.* Stem yellow, ſhort, ſolid. Head convex, gold colour, thin at the edge. *Bolt.* 98. 2.

6. Fibuliformis. *Button H.* Stem black, ſhort, ſolid. Head ſmooth, rather convex, yellow, blackiſh on the under ſide. *Bolt.* 176.

7. Æruginoſa. *Verdigris H.* Very ſmall, of a bright green colour, on a ſhort ſtem. On rotten wood. *Fl. dan.* 534. 2.

8. Plana. *Plain H.* Stem ſmooth. Head flat, livid. Aug.—Oct. In woods.

9. Fuliginoſa. *Sooty H.* Stem hollow, greyiſh. Head thin, brittle, ſooty, irregular, inflated. *Schoef.* 320.

PEZIZA. Campanulate, ſeeds on the upper ſurface only.

1. Lentifera. *Black P.* Without ſtem. Aſh-colour, ſmooth, containing many ſeeds. On wood, in fields, &c. *Schoef.* 180.

2. Punctata. *Spotted P.* Truncated, white, with black ſpots at the edge. On horſe dung. *Fl. dan.* 288.

3. Cornucopoides. *Cornucopia P.* Dark-grey, diſk expanded, ſinuated, ſpotted, membranous, two inches high. In woods. *Schoef.* 165. 166.

4. Acetabulum. *Cup P.* Aſh-colour. Stem ſhort. Angular on the outſide, with branched veins. On rotten wood. *Bull.* 485. 4. S. Brit.

5. Cyathoides. *Smooth P.* Stem very ſhort, head ſmall, cup faſhioned. Margin obtuſe, erect. In woods. *Schoef.* 148.

6. Scutellata. *Hairy P.* Small, plane. Margin convex, hairy. On rotten wood. *Schoef.* 284.

7. Auricula. *Jew's Ear.* Seſſile. Firſt gelatinous, then membranous and hard, beneath hoary; colour of a bat's wing. *Ger.* 1581.

8. Nivea. *Snowy P.* Snow white, of the ſize of half a hemp ſeed on a very ſhort ſtalk. *Mich.* 86. 15.

9. Coccinea. *Scarlet P.* Stem ſolid, ſhort. Cap funnel ſhaped, crimſon in the inſide. Spring. On rotten ſticks. *Mich.* 86. 5.

10. Calyculus. *Little cup P.* Stem rather long. Head concave, yellow, expanding. November, December. On rotten wood. *Mich.* 86. 14.

11. Inflexa. *Bended P.* Stem ſolid, black at the bottom. Head funnel ſhaped, ſmooth, yellowiſh within. *Bolt.* 105. 1.

12. Stipitata. *Stalked P.* Stem ſolid, brown, cylindrical. Head ſlightly concave, brown, hairy on the outſide. September. In woods. *Schoef.* 167.

13. Cupularis. *Scolloped P.* Stem ſhort and thick. Head like the cup of an acorn, ſcolloped at the edge, pale buff. *Mich.* 86. 2.

14. Radicata. *Rooted P.* Stem ſlender, having a fibrous root. Head brown, ſmooth, hemiſpherical. September. In woods. *Bull.* 485. 2.

15. Ochroleuca. *Yellowiſh P.* Stem ſolid, black at the lower part. Head funnel ſhaped, dirty yellow in the inſide. *Bolt.* 105. 1.

16. Minu-

16. Minutula. *Pin P.* Stem very ſhort and ſlender. Head very ſmall, brown, nearly flat.

17. Fructigenea. *Horn beam P.* Stem ſlender, tapering downwards. Head funnel ſhaped, thick, pale yellow. On the ſeeds of the Hornbeam. *Batſch.* 150.

18. Marginata. *Eyelet P.* A very minute plant, not larger than a pin's head, very white, head concave, emarginated. *Fl. dan.* 779. 1. On decayed wood.

19. Turbinata. *Wreathed P.* Seſſile, hemiſpherical. Head brittle, brown, tearing at the edges and curling inwards. *Schoef.* 150. 155. On rotten wood, or on the ground in woods.

20. Fuſca. *Brown P.* Head concave, brown, paler at the edge, adhering by nearly the whole ſurface to the earth on old dry dunghills. *Bolt.* 109. 2.

21. Fulva. *Orange P.* Seſſile, head flat, ſmooth, yellow or brown, turned in at the edge. *Bull.* 376. 1.

22. Hepatica. *Liver-coloured P.* Seſſile. Head dark purple, with a hollow dot in the middle. Among moſs in woods. *Batſch.* 138.

23. Punicea. *Vermillion P.* Seſſile, head flattiſh, pale red in the inſide, and paler on the outſide, thick at the edges, wrinkled on the upper ſurface. *Batſch.* 120.

24. Lanuginoſa, *Woolly P.* Seſſile, growing in cluſters, about the ſize of a ſmall pea, egg-ſhaped, covered on the outſide with a browniſh wool, ſmooth within. *Fl. dan.* 779. 2.

25. Altra.

25. Atra. *Black P.* Seſſile, black, concave. On cow dung.

26. Cœrulea. *Blue P.* Bright blue colour, covered with ſoft hairs at the edge. Adhering to wet rotten wood. *Bolt.* 108. 2.

27. Hiſpida. *Hairy P.* Seſſile, ſmooth and whitiſh on the inſide, brown on the outſide, and covered with browniſh hairs. In hedges. *Schoef.* 151.

28. Viridis. *Green P.* Seſſile. Of the ſize of a large pin's head, dark green, black at the edges. *Bolt.* 109. 1.

CLAVARIA. Smooth, oblong, perpendicular, of one uniform ſubſtance.

* *Undivided.*

1. Piſtillaris. *Hollow C.* whitiſh, ſimple, like a nail. In woods, &c. *Schoef.* 171.

2. Ophiogloſſoides. *Black C.* Black, intire, compreſſed, obtuſe. In woods. *Val. Par.* 7. 3.

3. Herculanea. *Solid C.* Height 4 inches; ſhaped like a fig or club, yellow-brown, wrinkled, depreſſed at top. *Schoef.* 169.

4. Vermiculata. *Single taper C.* Two inches high, worm-like, wrinkled longitudinally, yellow, ſometimes forked. *Michel.* 87. 12. LIGHTF.

5. Gyrans. *Twiſted C.* Stem pellucid, very ſlender, twiſting, terminating in a head like a club. On rotten ſtraw, &c. *Bolton.* 112. 1.

6. Phacorhiza. *Slender C.* Stem ſlender, pellucid, head whitiſh, ſubulate. *Bolt.* III. 1.

7. Capitata. *Headed C.* Stem ſmooth, yellow, cylindrical, ſolid. Head ovate, dark brown, dotted. In woods. *Bolt.* 130.

8. Militaris. *Orange C.* Stem about an inch long, terminating in a club-ſhaped head, granulated on the ſurface. In moiſt woods and on bogs.

9. Elveloides. *Helvella C.* Like an inverted cone, fleſhy when young, becoming woody afterwards, in tufts. *Schoef.* 164.

10. Fimbriata. *Fringed C.* Undivided, hollow, cloſed and pointed, or open and fringed at the end. *Withering.*

* * *Branched.*

11. Digitata. *Fingered C.* Black, conical, woody. On rotten wood. *Mich.* 54. 55.

12. Hypoxylon. *Horned C.* Cornuted, black, ſmall. On rotten wood. *Michel.* 66. 3.

13. Coralloides. *Coral C.* Branches numerous, cloſe, unequal. In woods, &c. *Schoef.* 175.

14. Faſtigiata. *Yellow C.* Branches faſtigiate. Yellow. In woods, &c. *Schoef.* 170. &c.

15. Muſcoides. *Pointed C.* Yellow. Branches rebranched, pointed, unequal. In woods, &c. *Schoef.* 173.

16. Elegans. *Elegant C.* Branched, upright, white. *Bolt.* 115.

17. Farinoſa

17. Farinoſa. *Mealy C.* Covered with a powder like meal. Branches truncated, finely ſcalloped.

18. Laciniata. *Jagged C.* Flat, branching, membranaceous, fringed at the ends. On the ground. Common. *Schoef.* 291.

19. Paraſitica. *Paraſitic C.* Unbranched, head oval, ſupported on a ſtem. Always fixed to a Lycoperdon. *Woodward.* 457.

LYCOPERDON. Roundiſh, opening at the top, replete with farinaceous ſeeds.

1. Tuber. *Truffle.* Round, prickly, ſolid, without a root. Growing under ground, on the downs of Wiltſhire, &c. *Mich.* 102.

2. Cervinum. *Tawny Puff ball.* Yellow. Skin hard, thick, granular; pulp purpliſh, with black ſeeds. In woods. *Mich.* 99. 4.

3. Boviſta. *Common Puff ball.* Large, roundiſh. Duſt flies off on breaking the ſkin. In paſtures, &c. *Schoef.* 184. &c.

4. Stellatum. *Star Buff-ball.* Stalk an inch and half long. Head large, white, dentated, ſmooth; volva multifid, expanding. In paſtures, &c. *Bolt.* 179.

5. Pedunculatum. *Long ſtalked Puff-ball.* Stalk long, hollow. Head round, ſmooth. Margin intire. In paſtures frequent. *Bull.* 294.

6. Epidendrum.

6. Epidendrum. *Purple Puff-ball.* Size of a pea, ſeſſile, gregarious. Skin and powder purple. On rotten wood. *Schoef.* 193. LIGHTF.

7. Epiphyllum. *Little yellow parafitic Puff-ball.* Seſſile, ſize of a pin's head, gregarious, filled with an elaſtic down. *Hall. H. helv.* 2168. Upon dead leaves, &c. LIGHTF.

8. Nigrum. *Little black parafitic Puff-ball.* Size of a ſmall pin's head, gregarious, ſeſſile, contiguous. On the rotten ſtumps of trees. LIGHTF. xxxi. *p.* 962.

9. Solidum. *Solid Puff-ball.* Very firm, brown, globular, but compreſſed, blue, black in the inſide. *Withering. Tuber ſolidum.*

10. Coliforme. *Cullender puff-ball.* Volva multifid, expanding. Head ſperical, depreſſed, pierced with many holes, ſmall, fringed. On ſandy banks. *Dicks.* 3. 4.

11. Fornicatum. *Turret puff-ball.* Volva divided into four ſegments, arched. Head ſmooth. Mouth obtuſe, ciliated. In meadows and paſtures. *Schoef.* 183.

12. Recolligens. *Hygrometer puff-ball.* Volva with many lanceolate ſegments, incloſing the head when dry, but when the air is moiſt, expanding and becoming flat. Head globular, compreſſed a little, buff, opening, ciliated. *Bull.* 238.

13. Carpobolus. *Projectile puff-ball.* Volva divided into many ſegments. Fruit globular, conſiſting of many ſeeds united together. On rotten wood. *Mich.* 101. 1. 2.

14. Verru-

14. Verrucoſum. *Pitted puff-ball.* Head globular, a little flattened, riſing on a ſhort ſtalk from a large woody root, head covered with minute pits like thoſe left after the ſmall pox. *Bull.* 24.

15. Globoſum. *Globe puff-ball.* Globular, without ſtem, white, becoming black, opening with a large aperture. In fields, very common. *Bolt.* 118.

16. Defoſſum. *Leathery puff-ball.* Globular, ſkin thick, leathery, tearing at the top, when open the coats curling inwards; half buried in the earth. *Woodward. Batſch.* 229.

17. Ardoſiaceum. *Slate coloured puff-ball.* Stemleſs, nearly globular, flexible, purpliſh, lead-colour, red within, changing to brown. *Withering.* 467.

18. Goſſypynum. *Cotton puff-ball.* Soft, flexible and white like cotton, pyriform. Seeds brown. On rotten wood. *Bolt.* 178.

19. Piſiformis. *Pea puff-ball.* Globular, rough, warty, tawny, opening at the top. Mouth ſmooth. On rotten wood. *Mich.* 54. 5.

20. Cinereum. *Aſh-coloured puff-ball.* Of the ſize of a pin's head, globular, rough, farinaceous, aſh-colour. Seeds large, black, intermixed with fibres. *Mich.* 96. 9.

21. Fragile. *Brittle puff-ball.* Growing in cluſters, pyriform, brown. Bark ſhining, brittle. Powder black, intermixed with ſoft hairs. On leaves, moſs, &c. *Dicks.* 3. 5.

22. Fuſcum.

22. Fuſcum. *Brown puff-ball.* Brown, globular, powder brown intermixed with fibres. *Mich.* 95. 1.

CLATHRUS. Roundiſh, formed in a kind of net work incloſing a woolly ſubſtance.

* *On a ſtem.*

1. Denudatus. *Purple C.* Stem brown, ſlender, ſhort. Head oblong, not perforated by the ſtem. On putrid wood. *Mich.* 94. 1.

2. Nuda. *Naked C.* Stem very ſlender, blackiſh brown, ſhining. Head oblong, ruſty brown. On rotten wood. *Schoef.* 297.

3. Flavus. *Yellow C.* Head globular, wool yellow. On rotten wood. *Bull.* 407. 2.

4. Ater. *Black C.* Globular, wool black. *Batſch.* 232.

5. Fulvus. *Brown C.* Globular, wool tawny. Stem very ſhort, ſmooth. *Bull.* 387. 2.

6. Furfuraceus. *Branny C.* Stem green, ſmall. Head globular, meally. On the ground in the ſhade, and on rotten wood. *Batſch.* 178.

7. Olivaceus. *Olive C.* Stem and head woolly, olive coloured. On putrid weeds. *Bolt.* 94. 2.

8. Cinereus. *Grey C.* Stem thickeſt at the lower part. Head aſh coloured, globular. On rotten wood. *Bolt.* 94. 1.

* * *Stemleſs.*

* * *Stemleſs.*

9. Turbinatus. *Turbinated C.* Turban ſhaped. Wool yellowiſh. *Fl. dan.* 655. 1.

10. Fragiformis. *Cylindrical C.* Growing in cluſters. Head cylindrical, yellow red. On rotten wood. *Batſch.* 172.

SPHÆRIA. Moſtly ſpherical, opening at the top, when young filled with jelly, when old with a blackiſh powder. Capſules often immerſed ſo that their orifices only are viſible.—

This Genus was firſt deſcribed by Haller, it has ſince been very much enlarged, by the obſervations of other botaniſts.

1. Tomentoſa. *Downy S.* Stemleſs, growing together, downy. *Bolt.* 125.

2. Viridis. *Green S.* Simple, globular, green. Bark granulated. Granules brown. *Bolt.* 121. 2.

3. Sanguinea. *Blood-coloured S.* Simple, egg ſhaped, blood-coloured, perforated at the end. *Bolt.* 121. 1.

4. Mori. *Scarlet S.* Very ſmall, ſimple, in cluſters, of a ſcarlet colour. On decayed bark of trees. *Bolt.* 120. 1.

5. Fragiformis. *Strawberry S.* Reſembling a ſtrawberry. On rotten wood. *Hall.* 2. 10.

6. Riccioidea. *Leafy S.* Orange colour, coriaceous, branching. *Bolt.* 182.

7. Mammoſa.

7. Mammoſa. *Semi-globular S.* Semi-globular, ſolitary, olive coloured. On rotten wood.

8. Gregaria. *Gregarious S.* In irregular cluſters of a red lead colour, cruſt whitiſh, tender.

9. Rugoſa. *Rough S.* In cluſters, globular, aſh coloured, wrinkled, large. *Bolt.* 123. 2.

10. Maxima. *Puſtulous S.* Large, thick, black, marked above with puſtules. *Bolt.* 181. On rotten wood.

11. Depreſſa. *Depreſſed S.* Very black, ſhining, hard, white in the inſide. *Bolt.* 122. 1.

12. Sulcata. *Furrowed S.* Oblong, blackiſh, ſmall, furrowed from one ſide to the other. *Bolt.* 124.

13. Tuberculoſa. *Knobbed S.* Convex, black both without and within. *Bolt.* 123. 1.

14. Aggregata. *Cluſtered S.* Black, aggregated, ſpherical, mouth intire. *Lightfoot.* 31.

15. Braſſicæ. *Cabbage S.* Of various ſhapes and ſizes, black on the outſide, white within. On rotten leaves of cabbage. *Bolt.* 119. 2.

MUCOR. *Mould.* Veſicles on pedicles.

1. Sphærocephalus. *Round-headed M.* or *Mould.* Stem filiform, black. Head grey. On rotten wood. *Hall. H. Helv.* iii. 1. 48.

2. Lichenoides. *Grey-headed M.* Stem black, ſubulate. Head lenticular. On rotten wood. *Dill.* 14. 3.

3. Embolus. *Black M.* A black briſtle, beſet with brown hairs. On rotten wood.

4. Mucedo. *Cotton M.* Grey, pellucid. Stem undivided. Capſule globular. On ſtale bread, &c. *Fl. dan.* 467. 4.

5. Leproſus. *Yellowiſh M.* Setaceous. Seeds radical. In vaults, &c. S. Brit.

6. Glaucus. *Greeniſh M.* Head round, aggregated. On apples, &c. *Fl. dan.* 777. 2.

7. Cruſtaceus. *Radiating M.* White. Spikes digitated. Head and briſtles watry. On putrid meats. *Bull.* 504. 11.

8. Eryſiphe. *Seſſile M.* White. Head brown, ſeſſile. On decaying leaves.

9. Ceſpitoſus. *Fingered M.* Stem branching. Fructifications radiated. *Bolt.* 132. 2. In woods, on rotten vegetables.

10. Botrytis. *Grape M.* Capſules growing on the ſtem in bunches. *Bolt.* 132. 3.

11. Chryſoſpermus. *Golden M.* Very fine, yellow, conſiſting of ſtems, ſupporting yellow ſeeds. *Bull.* 476. 4.

12 Argenteus. *White M.* Spreading, white, conſiſting of fine woolly filaments ſupporting ſeeds. *Withering.*

E R R A T A.

Page 131. l. 14. for *Willow-graſs*, read *Whitlow-graſs*.
—— 135. l. 2. for ILENE, read SILENE.
—— 291. l. 6. for *Buck-horn*, read *Buck-thorn*.

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